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(54) Title: SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION PRODUCT (57) Abstract Partial and complete human cDNA and genomic sequences corresponding to particular expressed sequence tags (ESTs). The ESTs are cDNA sequences that are generally between 150 and 500 base pairs in length, are derived from human brain cDNA libraries, correspond to genes transcribed in human brain, and have base sequences identified herein as SEQ ID NOS: 1-2421.		

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SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION
PRODUCT

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Technical Field

The present invention relates to newly identified polynucleotide sequences corresponding to transcription products of human genes, and to complete gene sequences associated therewith.

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Background

This invention relates to human genes. Identification and sequencing of human genes is a major goal of modern scientific research. The sequence of human genes is more than just a scientific curiosity. For example, by identifying genes and determining their sequences, scientists have been able to make large quantities of valuable human "gene products." These include human insulin, interferon, Factor VIII, tumor necrosis factor, human growth hormone, tissue plasminogen activator, and numerous other compounds. Additionally, knowledge of gene sequences can provide the key to treatment or cure of genetic diseases (such as muscular dystrophy and cystic fibrosis). The present invention represents a quantum leap forward in mankind's knowledge of human gene sequences.

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There are several basic concepts of molecular biology which figure prominently in the invention. A brief explanation of those concepts follows. Additional background information and definitions for scientific terms can be found

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in the literature. See, for example, "Glossary of Genetics, Classical and Molecular" by R. Rieger, A. Michaelis, and M.M. Green (Fifth Edition, Springer-Verlag, New York (1991)). The contents of this and other publications cited in the specification are incorporated by reference herein.

At an initial level, the present invention is based on identification and characterization of gene segments. Genes are the basic units of inheritance. Each gene is a string of connected bases called nucleotides. Most genes are formed of deoxyribonucleic acid, DNA. (Some viruses contain genes of ribonucleic acid, RNA.) The genetic information resides in the particular sequence in which the bases are arranged. A short sequence of nucleotides is often called a polynucleotide or an oligonucleotide.

Like genes, polypeptides are built from long strings of individual units. These units are amino acids. The nucleotide sequence of a gene tells the cell the sequence in which to arrange the amino acids to make the polypeptide encoded by that gene. In general, chains of up to about 200 amino acids are called polypeptides, while proteins are larger molecules made up of polypeptide subunits; both types of molecules are referred to generally herein as polypeptides. A triplet of nucleotides (codon) in DNA codes for each amino acid or signals the beginning or end of the message (anticodon). The term codon is also used for the corresponding (and complementary) sequences of three nucleotides in the mRNA into which the original DNA sequence is transcribed.

Generally, enzymes in the cell transcribe the permanent DNA of the gene into a temporary RNA copy, called messenger RNA or mRNA. The mRNA, in turn, can be translated into a polypeptide by the cell. This entire process is called gene expression, and the polypeptide is the gene product encoded by the gene.

Scientists have previously discovered how to reverse the transcription process and copy mRNA back into DNA using an

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enzyme called reverse transcriptase. The resulting is called complementary DNA, or cDNA. This is schematically shown in the single Figure. When substantially all of the mRNA from one cell or tissue is converted to cDNA at once and cloned into multiple copies of a recombinant vector to allow replication and manipulation in the laboratory, the result is called a cDNA library.

The various types of genes include those which code for polypeptides, those which are transcribed into RNA but are not translated into polypeptides, and those whose functional significance does not demand that they be transcribed at all. Most genes are found on large molecules of DNA located in chromosomes. Double stranded cDNA carries all the information of a gene. Each base of the first strand is joined to a complementary base (hybridized) in the second strand. The linear DNA molecules in chromosomes have thousands of genes distributed along their length. Chromosomes include both coding regions (coding for polypeptides) and noncoding regions; the coding regions represent only about three percent of the total chromosome sequence.

An individual gene has regulatory regions that include a promoter which directs expression of the gene, a coding region which can code for a polypeptide, and a termination signal. The regulatory DNA sequence is usually a noncoding region that determines if, where, when, and at what level a particular gene is expressed.

The coding regions of many genes are discontinuous, with coding sequences (exons) alternating with noncoding regions (introns). The final mRNA copy of the gene does not include these introns (which can be much longer than the coding region itself), although it does contain certain untranslated regions that usually do not code for the polynucleotide gene product. Untranslated sequences at the beginning and end of the mRNA are known as 5'- and 3'-untranslated regions,

respectively. This nomenclature reflects the orientation of the nucleotide constituents of the mRNA.

5 A cDNA is a DNA copy of a messenger RNA, which contains all of the exons of a gene. The cDNA can be thought of as having three parts: an untranslated 5' leader, an uninterrupted polypeptide-coding sequence, and a 3' untranslated region. The untranslated leader and trailing sequences are important for initiation of translation, mRNA stability, and other functions. The untranslated leader and trailing sequences are called 5'- and 3'-untranslated sequences, respectively. The 3' untranslated sequence is usually longer than the 5' untranslated leader, and can be longer than the polypeptide-coding sequence. The untranslated regions typically have many, randomly-distributed stop codons, and do not display the nonrandom base arrangements found in coding sequences. The 5'-untranslated sequence is relatively short, generally between 20 and 200 bases. The 3'-untranslated sequence is often many times longer, up to several thousand bases.

20 The translated or coding sequence begins with a translational start codon (AUG or GUG) and ends with a translational stop codon (UAA, UGA, or UAG). Generally, translation begins at the first "start" codon on the mRNA and proceeds to the first "stop" codon. Coding sequences can be distinguished by their nonrandom distribution of bases; numerous computer algorithms have been developed to distinguish coding from noncoding regions in this way.

30 Human DNA differs from person to person. No two persons (except perhaps identical twins) have identical DNA. While the differences, called allelic variations or polymorphisms, are slight on a molecular level, they account for most of the physical and other observable differences between individuals. It has been estimated that approximately 14 million sequence polymorphism differences exist between individuals.

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5 The ability of one strand of DNA to attach or hybridize
to a complementary strand has already been exploited for
several purposes. For example, small pieces of DNA (15 to 25
base pairs long) can be made which will hybridize to longer
strands of DNA which have a complementary sequence. These
short "primers" can be selected such that they hybridize to
a specific, unique location on the longer strand. Once the
primers have hybridized to their target on the DNA, the
polymerase chain reaction (PCR) can be employed to generate
10 millions of copies of (or amplify) the particular segment of
DNA between the locations to which two primers are bound.
Briefly, this technique allows amplification of a DNA region
situated between two convergent primers, using
oligonucleotide primers that hybridize to opposite strands.
15 Primer extension proceeds inward across the region between
the two primers, and the product of DNA synthesis of one
primer serves as a template for the other primer. Repeated
cycles of DNA denaturation, annealing of primers, and
extension result in an exponential increase in the number of
20 copies of the region bounded by the primers.

Similarly, a labeled segment of single-stranded DNA can
be hybridized to a longer DNA sequence, such as a chromosome,
to mark a specific location on the longer sequence. Segments
of DNA 50 bases long or longer that hybridize to a unique DNA
25 location in the human genome are extremely unlikely to
hybridize elsewhere in the human genome.

The Human Genome Project is an effort to sequence all
human DNA (the human genome). The human genome is estimated
to comprise 50,000 - 100,000 genes, up to 30,000 of which
30 might be expressed in the brain (Sutcliffe, *Ann. Rev.*
Neurosci. 11:157 (1988)). Once dedicated human chromosome
sequencing begins in three to five years, it was expected
that 12-15 years will be required to complete the sequence of
the genome (Report of the Ad Hoc Program Advisory Committee
on Complex Genomes, Reston, Va., Feb. 1988, D. Baltimore Ed.
35 (NIH, Bethesda, Md, 1988)). At that rate, the majority of

human genes would remain unknown for at least the next decade. The present invention can greatly accelerate the pace at which human genes can be identified and mapped. Most gene researchers, in conjunction with publication of their results in this field, submit sequence data to the GenBank database. Prior to the present invention, GenBank listed the sequences of only a few thousand human genes and less than two hundred human brain mRNAs (GenBank Release 66.0, December, 1990).

The role of sequencing complementary DNA (cDNA), reverse transcribed from mRNA, as a part of the human genome project has been vigorously debated since the idea of determining the complete nucleotide sequence of humans first surfaced. The coding sequence of all human genes represents most of the information content of the genome, but only 3-5% of the total DNA. In contrast, cDNA (which is only made from the transcription product of active genes) is one-half to three-fourths (the remainder being 5'- and 3'-untranslated sequence) meaningful genetic information. Thus, some have argued that cDNA sequencing should take precedence over genomic sequencing (Brenner, CIBA Found. Symp. 149:6 (1990)). However, until now, such arguments have not been heeded.

Genomic sequencing proponents have argued the difficulty of finding every mRNA expressed in all tissues, cell types, and developmental states, and that much valuable information from intronic and intergenic regions, including control and regulatory sequences, will be missed by cDNA sequencing. (Report of the Committee on Mapping and Sequencing the Human Genome, National Research Council (National Academy Press, Washington, D.C. 1988)). Further, sequencing of transcribed regions of the genome using cDNA libraries has heretofore been considered impractical or unsatisfactory. Libraries of cDNA were believed to be dominated by repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes comprising common or housekeeping sequences. It was believed that cDNA libraries would provide few sequences

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corresponding to structural and regulatory polypeptides or peptides. See, for example, Putney, et al., *Nature* 302:718-721 (1983). Putney, et al. sequenced over 150 clones from a rabbit muscle cDNA library and identified clones for 13 of the 19 known muscle polypeptides, including one new isotype but no unknown coding sequences.

Another perceived drawback of cDNA sequencing was that some mRNAs are abundant, and some are rare. The cellular quantities of mRNA from various genes can vary by several orders of magnitude. This led critics to believe that most information obtained from cDNA sequencing would be repetitious and useless.

The present invention demonstrates that, despite such skepticism, cDNA sequencing now provides a rapid method for obtaining enormous amounts of valuable genetic information and DNA products of great utility for the biotechnology and pharmaceutical industries. Not only can many distinct cDNAs be isolated and sequenced, even partial cDNAs can be used, with conventional, well-understood methods, to isolate entire genes, and to determine the chromosomal locations and biological functions of these genes. As is demonstrated here, fragments of only a few hundred bases are sufficient, in many cases, to identify the probable function of a new human gene if it is similar in structure to a gene from another animal, or from plants or bacteria. Similarly, even fragments of untranslated regions of a cDNA can be used to: i) isolate the coding sequence of the cDNA; ii) isolate the complete gene; iii) determine the position of the gene on a human chromosome, and hence the potential of the gene to cause a human genetic disease; and iv) determine the function of the gene by means of experiments in which the function of the native gene is disrupted by the addition of a short DNA fragment to the cell, e.g., using triple helix or antisense probes.

Because coding regions comprise such a small portion of the human genome, identification and mapping of transcribed

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regions and coding regions of chromosomes is of significant interest. There is a corresponding need for reagents for identifying and marking coding regions and transcribed regions of chromosomes. Furthermore, such human sequences are valuable for chromosome mapping, human identification, identification of tissue type and origin, forensic identification, and locating disease-associated genes (i.e., genes that are associated with an inherited human disease, whether through mutation, deletion, or faulty gene expression) on the chromosome.

SUMMARY OF THE INVENTION

Contrary to the expectations of the scientific community, cDNA screening and sequencing techniques have now been used to discover a large number of heretofore unknown human genes. Disclosed herein are over 2,400 new human polynucleotide sequences. These sequences could represent up to 5% of all human genes. The novelty of these sequences has been established through comparison to both nucleotide sequence databases and amino acid sequence databases. Surprisingly, over 80% of the sequences generated were unrelated to any sequences previously described in the literature.

The sequences of the present invention were ascertained using a fast approach to cDNA characterization. This approach could facilitate the tagging of most expressed human genes within a few years at a fraction of the cost of complete genomic sequencing, provide new genetic markers, provide new DNA-based therapeutics and diagnostics, and provide other valuable nucleotide reagents.

The sequences disclosed herein, styled Expressed Sequence Tags ("ESTs"), are markers for human genes actually transcribed *in vivo*. Techniques are disclosed for using these ESTs to obtain the full coding region of the corresponding gene. The use of ESTs, complete coding sequences, or fragments thereof for marking chromosomes, for

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mapping locations of expressed genes on chromosomes, for individual or forensic identification, for mapping locations of disease-associated genes, for identification of tissue type, and for preparation of antisense sequences, probes, and constructs is discussed in detail below. Unlike the random genomic DNA sequence tagged sites (STSs) (Olson et al., *Science* 245:1434 (1989)), ESTs point directly to expressed genes.

Various aspects of the present invention thus include the individual ESTs, corresponding partial and complete cDNA, genomic DNA, mRNA, antisense strands, triple helix probes, PCR primers, coding regions, and constructs. Also, where one skilled in the art is enabled by this specification to prepare expression vectors and polypeptide expression products, they are also within the scope of the present invention, along with antibodies, especially monoclonal antibodies, to such expression products.

BRIEF DESCRIPTION OF THE DRAWING

The single drawing Figure schematically illustrates the progression from chromosome to gene to mRNA to cDNA.

DETAILED DESCRIPTION OF THE INVENTION

The detailed description that follows provides not only the actual sequence of each new EST, but also explains how the ESTs were obtained, how to obtain the corresponding complete cDNA sequence and the corresponding genomic DNA sequence, how to make DNA constructs from the ESTs and corresponding sequences, how to use those sequences as reagents in molecular biology and other fields, how to produce gene products from the ESTs and corresponding sequences and antibodies to those gene products, and the functional categories of many ESTs and corresponding genes. Furthermore, numerous actual working examples and predictive

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examples are provided to demonstrate and exemplify numerous aspects of the invention.

I. ESTs from cDNA Libraries

5 The sequences of the present invention were isolated from commercially available and custom made cDNA libraries using a rapid screening and sequencing technique. In general, the method comprises applying conventional automated DNA sequencing technology to screening clones, advantageously
10 randomly selected clones, from a cDNA library. Preferably, the library is initially "enriched" through removal of ribosomal sequences and other common sequences prior to clone selection. According to the present method, ESTs are generated from partial DNA sequencing of the selected clones.
15 The ESTs of the present invention were generated using low redundancy of sequencing, typically a single sequencing reaction. While single sequencing reactions may have an accuracy as low as 97%, this nevertheless provides sufficient fidelity for identification of the sequence and design of PCR
20 primers.

 Most human genes can be identified by EST sequencing from libraries of cDNA copies of messenger RNAs. However, some genes are expressed only at specific times during embryonic development, or only in small amounts in a few
25 specific cell types. Other genes have mRNAs that are degraded very quickly by the cell in which they are expressed. If any of these are the case, transcripts of the gene will not be represented in cDNA libraries so the gene will not be identifiable by EST sequencing. A new method
30 called "exon amplification", however, can be used to isolate and identify transcripts of such genes.

 Exon amplification works by artificially expressing part or all of a gene that is contained in a cloned fragment of genomic DNA such as a cosmid or yeast artificial chromosome
35 (YAC). The gene is cloned into a special vector, designed at MIT, that uses control elements from virus genes to express

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the protein-coding exons of the human gene of interest. Exon trapping shows considerable promise as a general technique for identifying those genes in the human genome that cannot be found by cDNA cloning and EST sequencing. Exon amplification will also be useful for identifying the genes in regions of genomic DNA to which disease genes have been mapped. The exon amplification method can be used directly with the cosmid and YAC clones from human chromosomes that are being obtained by both NIH and DOE supported human genome centers. ESTs comprise DNA sequences corresponding to a portion of nuclear encoded messenger RNA. An EST is of sufficient length to permit: (1) amplification of the specific sequence from a cDNA library, e.g., by polymerase chain reaction (PCR); (2) use of a synthetic polynucleotide corresponding to a partial or complete sequence of the EST as a hybridization probe of a cDNA library, generally having 30 - 50 base pairs; or (3) unique designation of the pure cDNA clone from which the EST was derived (the EST clone) for use as a hybridization probe of a cDNA library. Preferably, EST-derived primer pairs and sequences amplify or detectably hybridize to a sequence from a genomic library.

It has been found that sufficient information is contained in the 150-400 base ESTs from one sequencing run to effect preliminary identification and exact chromosome mapping. Accordingly, the ESTs disclosed herein are generally at least 150 base pairs in length. The length of an EST is determined by the quality of sequencing data and the length of the cloned cDNA. Raw data from the automated sequencers is edited to remove low quality sequence at the end of the sequencing run. High quality sequences (usually a result of sequencing templates without excessive salt contamination) generally give about 400 bp of reliable sequence data; other sequences give fewer bases of reliable data. A 150 bp EST is long enough to be translated into a 50 amino acid peptide sequence. This length is sufficient to observe similarities when they exist in a database search. Furthermore, 150 bp is

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long enough to design PCR primers from each end of the sequence to amplify the complete EST. Sequences shorter than 150 bp are difficult to purify and use following PCR amplification. Furthermore, a 150 bp polynucleotide is likely to give a very strong signal with low background in a screen of a genomic library.

Finally, it is highly unlikely that a sequence of the same 150 bp exists in any genes in the genome besides the one tagged by the EST. Some closely related gene family members have very similar nucleotide sequences, but no examples of pairs of human genes with long segments of identical sequence have been reported to date. For instance, there are three known β -tubulin genes in humans. Several ESTs were found that matched one or another of these tubulin genes, but several new members of this gene family were also found and could be clearly distinguished from the three known members. ESTs that match perfectly to several different genes can be detected by hybridizing to chromosomes: if many chromosomal loci are observed, the sequence (or a close variant) is present in more than one gene. This problem can be circumvented by using the 3'-untranslated part of the cDNA alone as a probe for the chromosomal location or for the full-length cDNA or gene. The 3'-untranslated region is more likely to be unique within gene families, since there is no evolutionary pressure to conserve a coding function of this region of the mRNA.

As demonstrated in the Examples that follow, ESTs can be used to map the expressed sequence to a particular chromosome. In addition, ESTs can be expanded to provide the full coding regions, as detailed below. In this manner, previously unknown genes can be identified.

While a variety of cDNA libraries can be used to obtain ESTs, human brain cDNA libraries are exemplified and represent a preferred embodiment. Suitable cDNA libraries can be freshly prepared or obtained commercially, e.g., as shown in Examples 1, 2, and 11. The cDNA libraries from the

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desired tissue are preferably preprocessed by conventional techniques to reduce repeated sequencing of high and intermediate abundance clones and to maximize the chances of finding rare messages from specific cell populations. Preferably, preprocessing includes the use of defined composition prescreening probes, e.g., cDNA corresponding to mitochondria, abundant sequences, ribosomes, actins, myelin basic polypeptides, or any other known high abundance peptide; these prescreening probes used for preprocessing are generally derived from known ESTs. Other useful preprocessing techniques include subtraction, which preferentially reduces the population of certain sequences in the library (e.g., see A. Swaroop et al., *Nucl. Acids Res.* 19, 1954 (1991)), and normalization, which results in all sequences being represented in approximately equal proportions in the library (Patanjali et al, *Proc. Natl. Acad. Sci. USA* 88:1943 (1991)).

The cDNA libraries used in the present method will ideally use directional cloning methods so that either the 5' end of the cDNA (likely to contain coding sequence) or the 3' end (likely to be a non-coding sequence) can be selectively obtained."

Libraries of cDNA can also be generated from recombinant expression of genomic DNA. After they are amplified, ESTs can be obtained and sequenced, e.g., as illustrated in Example 11.

The sequences of the present invention include the specific sequences set forth in the Sequence Listing and designated SEQ ID NO: 1 - SEQ ID NO: 2412. In one aspect of this embodiment, the invention relates to those sequences of SEQ ID NOS: 1 - 2412 that comprise the cDNA coding sequences for polypeptides having less than 95% identity with known amino acid sequences (see Table 2) and more preferably less than 90% or 85% identity. In a second aspect, the invention relates to those sequences of SEQ ID NOS: 1 - 2412 that encode polypeptides having no similarity to known amino acid

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sequences (see Examples that follow). Precisely because they do not contain coding regions and are therefore more unique in their sequence structures, those sequences which meet neither of the preceding criteria can be most useful and are generally preferred for mapping.

Consistent with the NIH mission and its responsibilities to disseminate knowledge and share the tangible fruits of its research, the present inventors have taken a number of steps to facilitate sequence data and clone availability. All EST sequences have been submitted to GenBank (representing an addition equivalent to 7% of the human nucleotides in Release 69 of GenBank, September 1991). The corresponding cDNA clones have been submitted to the American Type Culture Collection and information on clones and sequences has been submitted to the Genome Data Base (Pearson, P. Nucl. Acids Res. 19 (Suppl.): 2237-9 (1991)).

II. Complete Coding Sequences from ESTs

The ESTs of the present invention generally represent relatively small coding regions or untranslated regions of human genes. Although most of these sequences do not code for a complete gene product, the ESTs of the present invention are highly specific markers for the corresponding complete coding regions. The ESTs are of sufficient length that they will hybridize, under stringent conditions, only with DNA for that gene to which they correspond. Suitably stringent conditions comprise conditions, for example, where at least 95%, preferably at least 97% or 98% identity (base pairing), is required for hybridization. This property permits use of the EST to isolate the entire coding region and even the entire sequence. Therefore, only routine laboratory work is necessary to parlay the unique EST sequence into the corresponding unique complete gene sequence.

Thus, each of the ESTs of the present invention "corresponds" to a particular unique human gene. Knowledge

of the EST sequence permits routine isolation and sequencing of the complete coding sequence of the corresponding gene. The complete coding sequence is present in a full-length cDNA clone as well as in the gene carried on genomic clones. Therefore, each EST "corresponds" to a cDNA (from which the EST was derived), a complete genomic gene sequence, a polypeptide coding region (which can be obtained either from the cDNA or genomic DNA), and a polypeptide or amino acid sequence encoded by that region.

The first step in determining where an EST is located in the cDNA is to analyze the EST for the presence of coding sequence, e.g., as described in Example 14. The CRM program predicts the extent and orientation of the coding region of a sequence. Based on this information, one can infer the presence of start or stop codons within a sequence and whether the sequence is completely coding or completely non-coding. If start or stop codons are present, then the EST can cover both part of the 5'-untranslated or 3'-untranslated part of the mRNA (respectively) as well as part of the coding sequence. If no coding sequence is present, it is likely that the EST is derived from the 3'-untranslated sequence due to its longer length and the fact that most cDNA library construction methods are biased toward the 3' end of the mRNA.

One general procedure for obtaining complete sequences from ESTs is as follows:

1. Purify selected human DNA from an EST clone (the cDNA clone that was sequenced to give the EST), e.g., by endonuclease digestion using ECOR1, gel electrophoresis, and isolation of the aforementioned clone by removal from low-melting agarose gel.

2. Radiolabel the isolated insert DNA, e.g., with ³²P labels, preferably by nick translation or random primer labeling.

3. Use the labeled EST insert as a probe to screen a lambda phage cDNA library or a plasmid cDNA library.

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4. Identify colonies containing clones related to the probe cDNA and purify them by known purification methods.

5. Nucleotide sequence the ends of the newly purified clones to identify full length sequences.

5 6. Perform complete sequencing of full length clones by Exonuclease III digestion or primer walking. Northern blots of the mRNA from various tissues using at least part of the EST clone as a probe can optionally be performed to check the size of the mRNA against that of the purported full
10 length cDNA.

An EST is a specific tag for a messenger RNA molecule. The complete sequence of that messenger RNA, in the form of cDNA, can be determined using the EST as a probe to identify a cDNA clone corresponding to a full-length transcript,
15 followed by sequencing of that clone. The EST or the full-length cDNA clone can also be used as a probe to identify a genomic clone or clones that contain the complete gene including regulatory and promoter regions, exons, and introns.

20 ESTs are used as probes to identify the cDNA clones from which an EST was derived. ESTs, or portions thereof, can be nick-translated or end-labelled with P^{32} using polynucleotide kinase using labelling methods known to those with skill in the art. (Basic Methods in Molecular Biology, L.G. Davis, M.D.
25 Dibner, and J.F. Battey, ed., Elsevier Press, NY, 1986). The lambda library can be directly screened with the labelled ESTs of interest or the library can be converted en masse to pBluescript (Stratagene, La Jolla, California) to facilitate bacterial colony screening. Both methods are well known in
30 the art. Briefly, filters with bacterial colonies containing the library in pBluescript or bacterial lawns containing lambda plaques are denatured and the DNA is fixed to the filters. The filters are hybridized with the labelled probe using hybridization conditions described by Davis et al. The
35 ESTs, cloned into lambda or pBluescript, can be used as positive controls to assess background binding and to adjust

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the hybridization and washing stringencies necessary for accurate clone identification. The resulting autoradiograms are compared to duplicate plates of colonies or plaques; each exposed spot corresponds to a positive colony or plaque. The colonies or plaques are selected, expanded and the DNA is isolated from the colonies for further analysis and sequencing.

The ESTs can additionally be used to screen Northern blots of mRNA obtained from various tissues or cell cultures, including the tissue of origin of the EST clone. Northern analysis will most often produce one to several positive bands. The bands can be selected for further study based on the predicted size of the mRNA.

Positive cDNA clones in phage lambda are analyzed to determine the amount of additional sequence they contain using PCR with one primer from the EST and the other primer from the vector. Clones with a larger vector-insert PCR product than the original EST clone are analyzed by restriction digestion and DNA sequencing to determine whether they contain an insert of the same size or similar as the mRNA size on a Northern blot.

Once one or more overlapping cDNA clones are identified, the complete sequence of the clones can be determined. The preferred method is to use exonuclease III digestion (McCombie, W.R, Kirkness, E., Fleming, J.T., Kerlavage, A.R., Iovannisci, D.M., and Martin-Gallardo, R., *Methods*: 3: 33-40, 1991). A series of deletion clones is generated, each of which is sequenced. The resulting overlapping sequences are assembled into a single contiguous sequence of high redundancy (usually three to five overlapping sequences at each nucleotide position), resulting in a highly accurate final sequence.

A similar screening and clone selection approach can be applied to obtaining cosmid or lambda clones from a genomic DNA library that contains the complete gene from which the EST was derived (Kirkness, E.F., Kusiak, J.W., Menninger, J.,

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Gocayne, J.D., Ward, D.C., and Venter, J.C. *Genomics* 10: 985-995 (1991). Although the process is much more laborious, these genomic clones can be sequenced in their entirety also. A shotgun approach is preferred to sequencing clones with inserts longer than 10 kb (genomic cosmid and lambda clones). In shotgun sequencing, the clone is randomly broken into many small pieces, each of which is partially sequenced. The sequence fragments are then aligned to produce the final contiguous sequence with high redundancy. An intermediate approach is to sequence just the promoter region and the intron-exon boundaries and to estimate the size of the introns by restriction endonuclease digestion (ibid.).

Using the sequence information provided herein, the polynucleotides of the present invention can be derived from natural sources or synthesized using known methods. The sequences falling within the scope of the present invention are not limited to the specific sequences described, but include human allelic and species variations thereof and portions thereof of at least 15-18 bases. (Sequences of at least 15-18 bases can be used, for example, as PCR primers or as DNA probes.) In addition, the invention includes the entire coding sequence associated with the specific polynucleotide sequence of bases described in the Sequence Listing, as well as portions of the entire coding sequence of at least 15-18 bases and allelic and species variations thereof. Furthermore, to accommodate codon variability, the invention includes sequences coding for the same amino acid sequences as do the specific sequences disclosed herein. Finally, although the error rate in the automated sequencing used in the present invention is small, there remains some chance of error. Therefore, claims to particular sequences should not be so narrowly construed as to require inclusion of erroneously identified bases or to exclude corrections.

Any specific sequence disclosed herein can be readily screened for errors by resequencing each EST in both directions (i.e., sequence both strands of cDNA).

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The sequences, constructs, vectors, clones, and other materials comprising the present invention can advantageously be in enriched or isolated form. As used herein, "enriched" means that the concentration of the material is at least about 2, 5, 10, 100, or 1000 times its natural concentration (for example), advantageously 0.01%, by weight, preferably at least about 0.1% by weight. Enriched preparations of about 0.5%, 1%, 5%, 10%, and 20% by weight are also contemplated. Further, removal of clones corresponding to ribosomal RNA and "housekeeping" genes and clones without human cDNA inserts results in a library that is "enriched" in the desired clones.

The term "isolated" requires that the material be removed from its original environment (e.g., the natural environment if it is naturally occurring). For example, a naturally-occurring polynucleotide present in a living animal is not isolated, but the same polynucleotide, separated from some or all of the coexisting materials in the natural system, is isolated.

It is also advantageous that the sequences be in purified form. The term "purified" does not require absolute purity; rather, it is intended as a relative definition. Individual EST clones isolated from a cDNA library have been conventionally purified to electrophoretic homogeneity. The sequences obtained from these clones could not be obtained directly either from the library or from total human DNA. The cDNA clones are not naturally occurring as such, but rather are obtained via manipulation of a partially purified naturally occurring substance (messenger RNA). The conversion of mRNA into a cDNA library involves the creation of a synthetic substance (cDNA) and pure individual cDNA clones can be isolated from the synthetic library by clonal selection. Thus, creating a cDNA library from messenger RNA and subsequently isolating individual clones from that library results in an approximately 10^6 -fold purification of the native message. Purification of starting material or

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natural material to at least one order of magnitude, preferably two or three orders, and more preferably four or five orders of magnitude is expressly contemplated.

5 In a cDNA library there are many species of mRNA represented. Each cDNA clone can be interesting in its own right, but must be isolated from the library before further experimentation can be completed. In order to sequence any specific cDNA, it must be removed and separated (i.e. isolated and purified) from all the other sequences. This
10 can be accomplished by many techniques known to those of skill in the art. These procedures normally involve identification of a bacterial colony containing the cDNA of interest and further amplification of that bacteria. Once a cDNA is separated from the mixed clone library, it can be
15 used as a template for further procedures such as nucleotide sequencing.

Although claims to large numbers of ESTs and corresponding sequences are presented herein, the invention is not limited to these particular groupings of sequences.
20 Thus, individual sequences are considered as applicants' discoveries or inventions, as are subgroupings of sequences. All of the functional subgroupings set forth in the tables define groupings for which separate claims are contemplated as being within the scope of this invention. Moreover, in
25 addition to claims to individual clones, it is intended that the present disclosure also support claims to numerical subgroupings. Thus, subgroupings of 50 ESTs (and corresponding sequences) are contemplated (e.g., SEQ ID NOS 1-50, 51-100, 101-150, etc.) as being within the scope of
30 this invention, as are subgroupings of 5, 10, 25, 100, 200, and 500 ESTs and corresponding sequences.

III. DNA Constructs

35 The present invention also includes recombinant constructs comprising one or more of the sequences as broadly described above. The constructs comprise a vector, such as

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a plasmid or viral vector, into which a sequence of the invention has been inserted, in a sense or antisense orientation. In a preferred aspect of this embodiment, the construct further comprises regulatory sequences, including for example, a promoter, operably linked to the sequence. Large numbers of suitable vectors and promoters are known to those of skill in the art, and are commercially available. The following vectors are provided by way of example.

Bacterial: pBs, phagescript, ϕ X174, pBluescript SK, pBs KS, pNH8a, pNH16a, pNH18a, pNH46a (Stratagene); pTrc99A, pKK223-3, pKK233-3, pDR540, pRIT5 (Pharmacia).

Eukaryotic: pWLneo, pSV2cat, pOG44, pXT1, pSG (Stratagene); pSVK3, pBPV, pMSG, pSVL (Pharmacia).

Promoter regions can be selected from any desired gene using CAT (chloramphenicol transferase) vectors or other vectors with selectable markers. Two appropriate vectors are pKK232-8 and pCM7. Particular named bacterial promoters include lacI, lacZ, T3, T7, gpt, lambda P_R, and trc. Eukaryotic promoters include CMV immediate early, HSV thymidine kinase, early and late SV40, LTRs from retrovirus, and mouse metallothionein-I. Selection of the appropriate vector and promoter is well within the level of ordinary skill in the art.

In a further embodiment, the present invention relates to host cells containing the above-described construct. The host cell can be a higher eukaryotic cell, such as a mammalian cell, or a lower eukaryotic cell, such as a yeast cell, or the host cell can be a procaryotic cell, such as a bacterial cell. Introduction of the construct into the host cell can be effected by calcium phosphate transfection, DEAE dextran mediated transfection, or electroporation (Davis, L., Dibner, M., Battey, I., **Basic Methods in Molecular Biology**, (1986)).

The constructs in host cells can be used in a conventional manner to produce the gene product coded by the recombinant sequence. Alternatively, the encoded polypeptide

can be synthetically produced by conventional peptide synthesizers.

Certain ESTs have already been preliminarily categorized by analogy to related sequences in other organisms (see Table 2). Table 10 of Example 10 categorizes particular ESTs broadly as metabolic, regulatory, and structural sequences where known. Constructs comprising genes or coding sequences corresponding to each of these categories are, therefore, specifically and individually contemplated.

Table 11 more particularly separates 127 new ESTs into 13 categories using a different criteria. These are genes related to cell surface; developmental control; energy metabolism; kinase and phosphatase; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. Table 11 further identifies the EST by the particular gene product for which it apparently codes. Each of these categories individually comprises a preferred category of EST, and preferred constructs and resulting polypeptide can be prepared from those ESTs or the corresponding complete gene sequence.

IV. ESTs and Corresponding Sequences as Reagents

Each of the cDNA sequences identified herein (and the corresponding complete gene sequences) can be used in numerous ways as polynucleotide reagents. The sequences can be used as diagnostic probes for the presence of a specific mRNA in a particular cell type. In addition, these sequences can be used as diagnostic probes suitable for use in genetic linkage analysis (polymorphisms). Further, the sequences can be used as probes for locating gene regions associated with genetic disease, as explained in more detail below.

The EST and complete gene sequences of the present invention are also valuable for chromosome identification.

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Each sequence is specifically targeted to and can hybridize with a particular location on an individual human chromosome. Moreover, there is a current need for identifying particular sites on the chromosome. Few chromosome marking reagents based on actual sequence data (repeat polymorphisms) are presently available for marking chromosomal location. The present invention constitutes a major expansion of available chromosome markers. One hundred ESTs have already been mapped to chromosomes. Using the techniques described in Example 5 or 6, the remaining ESTs and the corresponding complete sequences can similarly be mapped to chromosomes. The mapping of ESTs and cDNAs to chromosomes according to the present invention is an important first step in correlating those sequences with genes associated with disease.

Briefly, sequences can be mapped to chromosomes by preparing PCR primers (preferably 15-25 bp) from the ESTs. Computer analysis of the ESTs is used to rapidly select primers that do not span more than one exon in the genomic DNA, thus complicating the amplification process. These primers are then used for PCR screening of somatic cell hybrids containing individual human chromosomes. Only those hybrids containing the human gene corresponding to the EST will yield an amplified fragment.

PCR mapping of somatic cell hybrids is a rapid procedure for assigning a particular EST to a particular chromosome. Three or more clones can be assigned per day using a single thermal cycler. Using the present invention with the same oligonucleotide primers, sublocalization can be achieved with panels of fragments from specific chromosomes or pools of large genomic clones in an analogous manner. Other mapping strategies that can similarly be used to map an EST to its chromosome include in situ hybridization, prescreening with labeled flow-sorted chromosomes and preselection by hybridization to construct chromosome specific cDNA libraries. Results of mapping ESTs to chromosomal segments are listed in Tables 3 and 4.

Fluorescence in situ hybridization (FISH) of a cDNA clone to a metaphase chromosomal spread can be used to provide a precise chromosomal location in one step. This technique can be used with cDNA as short as 500 or 600 bases; however, clones larger than 2,000 bp have a higher likelihood of binding to a unique chromosomal location with sufficient signal intensity for simple detection. FISH requires use of the clone from which the EST was derived, and the longer the better. 2,000 bp is good, 4,000 is better, and more than 4,000 is probably not necessary to get good results a reasonable percentage of the time. For a review of this technique, see Verma et al., **Human Chromosomes: a Manual of Basic Techniques**. Pergamon Press, New York (1988).

Reagents for chromosome mapping can be used individually (to mark a single chromosome or a single site on that chromosome) or as panels of reagents (for marking multiple sites and/or multiple chromosomes). Reagents corresponding to noncoding regions of the genes actually are preferred for mapping purposes. Coding sequences are more likely to be conserved within gene families, thus increasing the chance of cross hybridizations during chromosomal mapping (see Tables 8 and 9).

Once a sequence has been mapped to a precise chromosomal location, the physical position of the sequence on the chromosome can be correlated with genetic map data. (Such data are found, for example, in V. McKusick, **Mendelian Inheritance in Man** (available on line through Johns Hopkins University Welch Medical Library).) The relationship between genes and diseases that have been mapped to the same chromosomal region are then identified through linkage analysis (coinheritance of physically adjacent genes).

Next, it is necessary to determine the differences in the cDNA or genomic sequence between affected and unaffected individuals. If a mutation is observed in some or all of the affected individuals but not in any normal individuals, then

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the mutation is likely to be the causative agent of the disease.

5 With current resolution of physical mapping and genetic mapping techniques, a cDNA precisely localized to a chromosomal region associated with the disease could be one of between 50 and 500 potential causative genes. (This assumes 1 megabase mapping resolution and one gene per 20 kb.)

10 Comparison of affected and unaffected individuals generally involves first looking for structural alterations in the chromosomes, such as deletions or translocations that are visible from chromosome spreads or detectable using PCR based on that cDNA sequence. Ultimately, complete sequencing of genes from several individuals is required to confirm the
15 presence of a mutation and to distinguish mutations from polymorphisms.

In addition to the foregoing, the sequences of the invention, as broadly described, can be used to control gene expression through triple helix formation or antisense DNA or
20 RNA, both of which methods are based on binding of a polynucleotide sequence to DNA or RNA. Polynucleotides suitable for use in these methods are usually 20 to 40 bases in length and are designed to be complementary to a region of the gene involved in transcription (triple helix - see Lee et al, Nucl. Acids Res. 6: 3073 (1979); Cooney et al, Science
25 241: 456 (1988); and Dervan et al, Science 251: 1360 (1991)) or to the mRNA itself (antisense - Okano, J. Neurochem. 56: 560 (1991); Oligodeoxynucleotides as Antisense Inhibitors of Gene Expression, CRC Press, Boca Raton, FL (1988)). Triple
30 helix formation optimally results in a shut-off of RNA transcription from DNA, while antisense RNA hybridization blocks translation of an mRNA molecule into polypeptide. Both techniques have been demonstrated to be efficient in model systems. Information contained in the sequences of the
35 present invention is necessary for the design of an antisense or triple helix oligonucleotide.

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The present invention is also useful tool in gene therapy, which requires isolation of the disease-associated gene in question as a prerequisite to the insertion of a normal gene into an organism to correct a genetic defect.
5 high specificity of the cDNA probes according to this invention have promise of targeting such gene locations in a highly accurate manner.

The sequences of the present invention, as broadly defined, are also useful for identification of individuals
10 from minute biological samples. The United States military, for example, is considering the use of restriction fragment length polymorphism (RFLP) for identification of its personnel. In this technique, an individual's genomic DNA is digested with one or more restriction enzymes, and probed on
15 a Southern blot to yield unique bands for identifying personnel. This method does not suffer from the current limitations of "Dog Tags" which can be lost, switched, or stolen, making positive identification difficult. The sequences of the present invention are useful as additional
20 DNA markers for RFLP.

However, RFLP is a pattern based technique, which does not directly focus on the actual DNA sequence of the individual. The sequences of the present invention can be used to provide an alternative technique that determines the
25 actual base-by-base DNA sequence of selected portions of an individual's genome. These sequences can be used to prepare PCR primers for amplifying and isolating such selected DNA. One can, for example, take an EST of the invention and prepare two PCR primers from the 5' and 3' ends of the EST.
30 These are used to amplify an individual's DNA, corresponding to the EST. The amplified DNA is sequenced.

Panels of corresponding DNA sequences from individuals, made this way, can provide unique individual identifications, as each individual will have a unique set of such DNA
35 sequences, due to allelic differences. The sequences of the present invention can be used to particular advantage to

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obtain such identification sequences from individuals and from tissue, as explained in Examples 12 - 14.

5 The EST sequences from Examples 1 and 2 and the complete sequences from Example 13 uniquely represent portions of the human genome. Allelic variation occurs to some degree in the coding regions of these sequences, and to a greater degree in the noncoding regions. It is estimated that allelic variation between individual humans occurs with a frequency of about once per each 500 bases. Each of the ESTs or complete coding sequences comprising a part of the present invention can, to some degree, be used as a standard against which DNA from an individual can be compared for identification purposes. Because greater numbers of polymorphisms occur in the noncoding regions, fewer sequences are necessary to differentiate individuals. The noncoding sequences of Table 9 for example, could comfortably provide positive individual identification with a panel of perhaps 100 to 1,000 primers which each yield a noncoding amplified sequence of 100 bp. If predicted coding sequences, such as those from Table 6, are used, a more appropriate number of primers for positive individual identification would be 500-2,000.

15 If a panel of reagents from ESTs or complete sequences of this invention is used to generate a unique ID database for an individual, those same reagents can later be used to identify tissue from that individual. Positive identification of that individual, living or dead can be made from extremely small tissue samples.

25 Another use for DNA-based identification techniques is in forensic biology. PCR technology can be used to amplify DNA sequences taken from very small biological samples such as tissues, e.g., hair or skin, or body fluids, e.g., blood, saliva, semen, etc. In one prior art technique, gene sequences are amplified at specific loci known to contain a large number of allelic variations, for example the DQ α class II HLA gene (Erlich, H., PCR Technology, Freeman and Co.

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(1992)). Once this specific area of the genome is amplified, it is digested with one or more restriction enzymes to yield an identifying set of bands on a Southern blot probed with DNA corresponding to the DQ α class II HLA gene.

5 The sequences of the present invention can be used to provide polynucleotide reagents specifically targeted to additional loci in the human genome, and can enhance the reliability of DNA-based forensic identifications. Those sequences targeted to noncoding regions (see, e.g., Tables 8
10 and 9) are particularly appropriate. As mentioned above, actual base sequence information can be used for identification as an accurate alternative to patterns formed by restriction enzyme generated fragments. Reagents for obtaining such sequence information are within the scope of
15 the present invention. Such reagents can comprise complete ESTs or corresponding coding regions, or fragments of either of at least 15 bp, preferably at least 18 bp.

20 There is also a need for reagents capable of identifying the source of a particular tissue. Such need arises, for example, in forensics when presented with tissue of unknown origin. Appropriate reagents can comprise, for example, DNA probes or primers specific to particular tissue prepared from the ESTs or complete sequences of the present invention. Panels of such reagents can identify tissue by species and/or
25 by organ type. In a similar fashion, these reagents can be used to screen tissue culture for contamination.

V. Production of Polypeptide Corresponding to ESTs

30 As previously explained, each EST corresponds not only to a coding region, but also to a polypeptide. Once the coding sequence is known, or the gene is cloned which encodes the polypeptide, conventional techniques in molecular biology can be used to obtain the polypeptide.

35 At the simplest level, the amino acid sequence encoded by the polynucleotide sequence can be synthesized using commercially available peptide synthesizers. This is

particularly useful in producing small peptides and fragments of larger polypeptides. (Fragments are useful, for example, in generating antibodies against the native polypeptide.)

5 Alternatively, the DNA encoding the desired polypeptide can be inserted into a host organism and expressed. The organism can be a bacterium, yeast, cell line, or multicellular plant or animal. The literature is replete with examples of suitable host organisms and expression techniques. For example, naked polynucleotide (DNA or mRNA)
10 can be injected directly into muscle tissue of mammals, where it is expressed. This methodology can be used to deliver the polypeptide to the animal, or to generate an immune response against a foreign polypeptide. Wolff, et al., *Science* 247:1465 (1990); Felgner, et al., *Nature* 349:351 (1991).
15 Alternatively, the coding sequence, together with appropriate regulatory regions (i.e., a construct), can be inserted into a vector, which is then used to transfect a cell. The cell (which may or may not be part of a larger organism) then expresses the polypeptide. (See Example 25.)

20 Antibodies generated against the polypeptide corresponding to a sequence of the present invention can be obtained by direct injection of the naked polypeptide into an animal (as above) or by administering the polypeptide to an animal, preferably a nonhuman. The antibody so obtained will
25 then bind the polypeptide itself. In this manner, even a sequence encoding only a fragment of the polypeptide can be used to generate antibodies binding the whole native polypeptide. Such antibodies can then be used to isolate the polypeptide from tissue expressing that polypeptide.
30 Moreover, a panel of such antibodies, specific to a large number of polypeptides, can be used to identify and differentiate such tissue.

VI. Examples

35 Certain aspects of the present invention are described in greater detail in the non-limiting Examples that follow.

EXAMPLE 1

cDNA Sequences Determined by Random
Clone Selection: First set

5

METHODOLOGY:

With reference to the data presented in Table 1, lambda ZAP libraries were converted en masse to pBluescript plasmids, transfected into E. coli XL1-Blue cells, and plated on X-gal/IPTG/ampicillin plates. A total of 1058 clones were picked at random from three human brain cDNA libraries: fetal brain, two-year-old hippocampus, and two-year-old temporal cortex (Stratagene catalog #936206, 936205, 935, respectively. Stratagene, 11099 N. Torrey Pines Rd., La Jolla, CA 92037). An analysis of these clones is summarized in Table I (see below) In addition, clones selected from the hippocampus library were also analyzed after subtractive hybridization with the fibroblast library. These results are listed in the "Hippocampus Subtracted" column of Table 1.

Templates for DNA sequencing were PCR products or plasmids prepared by the alkaline lysis method. About half of the templates prepared by PCR failed to yield an amplified fragment suitable for sequencing. This was primarily due to use of PCR conditions that minimized the need for further purification of the product but also selected against amplification of long inserts (5 μ l fresh or frozen overnight culture of E. coli carrying the pBluescript plasmid, 7.5 μ M each dNTP, and 0.1 μ M each primer for 35 cycles: 94°C, 40 sec; 55°C, 40 sec; 72°C, 90 sec). A further percentage of the PCR-generated templates failed to sequence, largely due to primer-dimer or other amplification artifacts. Qiagen™ columns improved the percentage of plasmid templates, increasing the yields of usable sequence from about 60% with a standard alkaline lysis protocol to over 90%. Overall, 117 PCR-generated templates and 497 plasmid templates resulted in usable sequence. Dideoxy chain termination sequencing reactions were performed with fluorescent dye-labeled M13

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universal or reverse primers. After a cycle sequencing protocol, carried out in a Perkin-Elmer thermal cycler, sequencing reactions were run on an Applied Biosystems, Inc. (Foster City, CA) 373A automated DNA sequencer. (Cycle sequencing was performed in a Perkin Elmer Thermal Cycler for 15 cycles of 95°C, 30 sec; 60°C, 1 sec; 70°C, 60 sec and 15 cycles of 95°C, 30 sec; 70°C, 60 sec with the Applied Biosystems, Inc. Taq Dye Primer Cycle Sequencing Core Kit protocol). Some sequencing reactions were performed on an ABI robotic workstation (Cathcart, *Nature* 347: 310 (1990) hereby incorporated by reference).

RESULTS:

Singe-run DNA sequence data were obtained from 609 randomly chosen cDNA clones. The number of clones sequenced from each library is summarized in Table 1. Double-stranded cDNA clones in the pBluescript vector were sequenced by a cycle sequencing protocol with dye-labeled primers and Applied Biosystems, Inc. 373A DNA Sequences. The average length of usable sequence was 397 bases with a standard deviation of 99 bases.

Subtractive hybridization has been used successfully to reduce the population of highly represented sequences in a cDNA library by selectively removing sequences shared by another library. (Schmid and Girou, *Neurochem.* 48: 307 (1987); Fargnoli et al, *Anal. Biochem.* 187: 364 (1990); Duguid and Dinauer, *Nucl. Acids. Res.* 18: 2789 (1990); Schweinfest, et al, *Genet. Anal. Techn. Appl.* 7: 64 (1990); Travis and Sutcliffe, *Proc. Natl. Acad. Sci. USA* 85: 1696 (1988); Kato, *Eur. J. Neurosci.* 2: 704 (1990)). Subtractive hybridization was therefore tested as a way of enhancing the number of brain-specific clones in the hippocampus library by hybridizing the hippocampus library with a WI38 human lung fibroblast cell line cDNA library and removing the common sequences (Schweinfest et al, *Genet. Anal. Techn. Appl.* 7: 64 (1990); Sive and St. John, *Nucl. Acids Res.* 16: 10937

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(1988)). Clones from this subtraction are listed in the column "Hippocampus Subtracted" in Table 1.

The EST sequences from this Example 1 are identified as SEQ ID NOS 1-315.

TABLE 1. cDNA Library Composition Determined
By Random Clone Sequencing

-----cDNA Library-----

EST Category	Hippocampus		Hippocampus Subtracted		Fetal Brain		Temporal Cortex	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Databases Match--Human								
Mitochondrial Genes	48	12.8	10	8.6	3	7.9	6	7.5
Repeats: Alu, Line-1, etc.	39	10.4	14	12.2	6	15.8	0	0
Ribosomal RNA	10	2.7	7	6.0	0	0	11	13.8
Other Nuclear Genes	32	8.6	7	6.0	4	10.5	0	0
Database Match--Other	32	8.6	7	6.0	5	13.2	4	5.0
No Database Match	160	42.8	44	37.9	20	52.6	6	7.5
poly A Insert	53	14.1	24	20.7	0	0	27	33.7
No Insert	1	0.3	3	2.6	0	0	26	32.5

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EXAMPLE 2

Sequencing of Additional ESTs: Second set

Over 2600 additional cDNA clones have been isolated, partially sequenced and screened. The clones were isolated from four human brain cDNA libraries. The new sequences thus discovered, together with the 315 brain ESTs from Example 1, correspond to over 2400 new human genes. These data represent an approximate doubling of the number of human genes identified by DNA sequencing.

Specifically, four cDNA libraries were used as sources of clones for sequencing. Human hippocampus and fetal brain libraries, plasmid template preparation, sequencing reactions, and automated sequencing were performed as described (Adams, M.D., Kelley, J.M., Gocayne, J.D., Dubnick, M., Polymeropoulos, M.H., Xiao, H., Merril, C.R., Wu, A., Olde, B., Moreno, R.F., Kerlavage, A.R., McCombie, W.R., & Venter, J.C. *Science*, 252: 1651-56 (1991)). A pooled probe consisting of inserts from 10 different EST clones with sequences that matched either mitochondrial genes or the 18S or 28S ribosomal RNAs was used to prescreen a gridded filter array of the hippocampus library; nonhybridizing clones are referred to as the "prescreened library". Another fetal brain library was constructed by and was a gift from Bento Soares (Columbia University). A directionally-cloned library was prepared using the method of Rubenstein, et al. (Rubenstein, J., Elizabeth, A., Brice, A., Ciaranello, R., Denney, D., Porteus, M. & Usdin, T. *Nucl. Acids Res.* 18: 4833-4842) using human adult brain mRNA purchased from Clontech (Palo Alto, CA; Catalogue # 6516-1). Of 482 clones analyzed by restriction enzyme digestion, 33% contained inserts at least 1500 base pairs in length. Stratagene hippocampus and fetal brain library totals include data from Adams et al *Science* 252: 1651.

Sequences of nuclear-encoded cDNAs that did not include interspersed repeats (Schmid, C. W. & Jelinek, W. R. *Science*

216: 1065-1070 (1982); Paulson, K. E., Deka, N., Schmid, C. W., Misra, R., Schlinder, C. W., Rush, M. G., Kadyk, L., & Leinwand, L. *Nature* 316: 359-361 (1985); Fanning, T. G. & Singer, M. F. *Biochem. Biophys. Acta* 910: 203-212 (1987)) were searched against all of GenBank and, in 6-frame translation, against a comprehensive, non-redundant peptide database using the network BLAST (Altschul, S. F., Gish, W., Miller, W., Myers, E.W., & Lipman, D. J. *Mol. Biol.* 215: 403-410 (1990)) server at the National Center for Biotechnology Information. BLAST output was parsed, and an interactive alignment editor was used to select which matches, if any, from each search to record in a relational EST database, which was developed to track sequencing, identification, tissue localization, physical mapping, and the public distribution of the clones, mapping and sequence data. For significant similarities, a putative gene name and Protein Identification Resource (PIR) gene family identification (Barker, W., George, D., Hunt, L., & Garavelli, J. *Nucl. Acids Res.* 19 (Suppl): 2231-2236 (1991)) for the EST were assigned. ESTs without significant matches using BLAST were searched in translation against PIR using FASTA. Ten additional marginal matches were found. A total of 2300 new EST sequences comprising 765,505 nucleotides from the current data set have been submitted to GenBank and assigned accession numbers M77851-M79278 and M85308-M86179. All ESTs except those multiply representing actin, tubulin, and myelin basic protein clones were submitted. ATCC accession numbers of cDNA clones from which ESTs were derived are 77501-78999 and 81000-81756. The Genome Data Base expressed D-segment numbers for these clones are D0S1E - D0S2422E. The ESTs from this Example are identified herein as SEQ ID NOs 316-2407.

EXAMPLE 3

EST Characterization: First Set

ESTs including SEQ ID NOS 1-315 were analyzed as follows. Initially, the EST sequences were examined for similarities in the GenBank nucleic acid database (GenBank Release 65.0), Protein Information Resource Release 26.0 (PIR), and ProSite (MacPattern from the EMBL data library, Fuchs R. *Comput. Appl. Biosci.* 7: 105 (1990) Release 5.0 were used). BLAST was used to search Genbank and the PIR (both maintained by the National Center for Biotechnology Information) ESTs without exact GenBank matches were translated in all six reading frames and each translation was compared with the protein sequence database PIR and the ProSite protein motif database. Comparisons with the ProSite motif database were done by means of the program MacPattern from the EMBL Data Library. GenBank and PIR searches were conducted with the "basic local alignment search tool" programs for nucleotide (BLASTN) and peptide (BLASTX) comparisons (Altschul et al, *J. Mol. Biol.* 215: 403 (1990)). PIR searches were run on the National Center for Biotechnology Information BLAST network service. The BLAST programs contain a very rapid database-searching algorithm that searches for local areas of similarity between two sequences and then extends the alignments on the basis of defined match and mismatch criteria. The algorithm does not consider the potential gaps to improve the alignment, thus sacrificing some sensitivity for a 6-80 fold increase in speed over other database-searching programs such as FASTA (Pegarson and Lipman, *Proc. Natl. Acad. Sci. USA*, 85: 2444 (1988)).

Sequence similarities identified by the BLAST programs were considered statistically significant with a Poisson P-value than 0.01. The Poisson P-value less than the probability of as high a score occurring by chance given the number of residues in the query sequence and the database.

After the BLASTN search, 30 unmatched ESTs were compared against GenBank by FASTA to determine if significant matches were missed due to the use of BLASTN for the database search. No additional statistically significant matches were found. Statistical significance does not necessarily mean functional similarity; some of the reported matches may indicate the presence of a conserved domain or motif or simply a common protein structure pattern. Those ESTs identified as fully corresponding to known human genes or proteins are not included in this disclosure. Statistically significant matches are reported in Table 2, together with the length and percent identity or similarity of each alignment.

On the basis of database searches, 609 EST sequences were classified into eight groups as shown in Table 1 (see Example 1 above). Four groups, with 197 or 32% of the sequences, consist of matches to human sequences: repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes. Forty-eight (8%) of the sequences matched non-human entries in GenBank or PIR while 230 (38%) had no significant matches. The remaining 134 (22%) sequences contained no insert or consisted entirely of polyA between the EcoRI cloning sites.

Thirty-six ESTs matched previously sequenced human nuclear genes with more than 97% identity. Four of these ESTs are from genes encoding enzymes involved in maintaining metabolic energy, including ADP/ATP translocase, aldolase C, hexokinase, and phosphoglycerate kinase. Human homologs of genes for the bovine mitochondrial ATP synthase $F_0\beta$ -subunit and porcine aconitase were also found (Table 2). Brain-specific cDNAs included synaptophysin, glial fibrillary acidic protein (GFAP), and neurofilament light chain. At least six ESTs are from genes encoding proteins involved in signal transduction: 2',3'-cyclic nucleotide 3'-phosphodiesterase (2 ESTs), calmodulin, c-erbA- α -2, $G_{\beta}\alpha$, and Na^+/K^+ ATPase α -subunit. Other ESTs were matches to genes for ubiquitous structural proteins -- actins, tubulins, and

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fodrin (non-erythroid spectrin). ESTs also document the presence in the hippocampus cDNA library of the ret proto-oncogene, the ras-related gene rhoB, and one of the chromosome 22 breakpoint cluster region transcripts. Eight
5 ESTs are from genes known to be associated with genetic disorders (Online Mendelian Inheritance in Man). More than half of the human-matched ESTs from Example 1 have been mapped to chromosomes, indicating the bias of GenBank entries toward well-studied genes and proteins.

10 ESTs without significant GenBank matches were also compared to the ProSite database of recognized protein motifs. Not counting post-translational-modification signatures, fifty-four sequences contained motifs from the database. Some patterns, particularly the "leucine zipper",
15 are found in scores or hundreds of proteins that do not share the functional property implied by the presence of the motif.

Similarities to sequences from other organisms were also detected in the BLAST searches of GenBank and PIR (Table 2). Several ESTs displayed similarity to "housekeeping" genes,
20 including the ribosomal proteins S10 and L30 (rat) and the above glycolytic enzymes. EST00257 (SEQ ID NO:77) shows strong nucleotide sequence similarity to the squid (67%) and Drosophila (70.4%) kinesin heavy chain. Kinesin was first described as a microtubule-associated motor protein involved
25 in organelle transport in the squid giant axon (Vale et al, Cell 42: 39 (1985)). Six oncogene-related sequences were also among the cDNA clones sequenced. EST00299 (SEQ ID NO:180) and EST00283 (SEQ ID NO:271) show similarity to several ras-related genes and EST00248 (SEQ ID NO:102)
30 matched the 3' untranslated region of the bovine substrate of botulinum toxin ADP-ribosyltransferase. Similarities with an S. cerevisiae RNA polymerase subunit and Torpedo electromotor neuron-associated protein were also observed. Two ESTs may represent new members of known human gene families: EST00270
35 matched the three β -tubulin genes with 88-91% identity and

EST00271 (SEQ ID NO:248) matched α -actinin with 85% identity at the nucleotide level.

Among the most interesting of the primary sequence relationships was the similarity of ESTs to the Drosophila genes Notch and Enhancer of split. Nucleotide and peptide alignments of EST00256 (SEQ ID NO:188) and EST00259 (SEQ ID NO:227) with the Drosophila genes have been demonstrated. Both genes are part of a signal cascade encoded by the "neurogenic" genes that are involved in the differentiation of neuronal and epidermal cell lineages in the neuroectoderm of the developing Drosophila embryo (Campos-Ortega, **Trends in Neuro. Sci.** 11: 400 (1988)). It has been proposed that the Enhancer of split protein interacts with a membrane protein that is the product of the Notch gene to convert a developmental signal into an altered pattern of gene expression (id. **J. Mol. Biol.** 215: 403 (1990)). EST00256 (SEQ ID NO:188) matches near the 5' end of the Enhancer of split coding sequence, away from the mammalian G protein β subunit- and yeast cdc4-like elements (Hartley et al, **Cell** 55: 785 (1988); Klambt et al. **EMBO J.** 8: 203 (1989)). Part of the EST00259 (SEQ ID NO:227) match to Notch in the cdc10/SW16 region that is similar to three cell-cycle control genes in yeast and is tightly conserved in the Xenopus Notch homolog, Xotch. In Drosophila, Enhancer of split is absolutely required for formation of epidermal tissue. Notch contains several epidermal growth factor-like repeats and appears to play a general role in cell-cell communication during development (Banerjee and Zipursky, **Neuron** 4:177 (1990)).

Seven genes were represented by more than one EST. Comparisons of all the ESTs against one another revealed two overlaps of unknown ESTs: EST00233 (SEQ ID NO:32) and EST00234 (SEQ ID NO:8) match in opposite orientations and EST00235 (SEQ ID NO:204) and EST00236 (SEQ ID NO:148) match in the same orientation beginning at the same nucleotide. Five human genes were represented by more than one EST: β -

actin (3), λ -actin (2), α -tubulin (2), α -2-macroglobulin (2), and 2'3'-cyclic-nucleotide-3'-phosphodiesterase (2). Those few instances where two or more ESTs represent different portions of a single cDNA can be readily ascertained when the sequence of the full cDNA insert is determined in accordance with Example 13.

Example 4

EST Sequences Characterization: Second Set

The ESTs of Example 2, including SEQ ID NOs 316-2407, were screened against known sequences listed in GenBank and other databases, as in Example 3. The results are reported in Table 2. The quality of the match is given as percent identity and length in base pairs for nucleotide matches and amino acid residues for peptide matches. In many cases ESTs match multiple domains on several related proteins; for example, EST00825 matches two transmembrane domains on both GABA and Norepinephrine transporters. Nucleotide databases are: GenBank (GB), and EMBL (E); peptide databases are: GenPept (GPU), Swiss-Prot (SP), and PIR.

The great majority (83%) of the partial cDNA sequences reported in Example 2 are unrelated to any sequences previously described in the literature. Based on database matches to known genes from humans as well as from such evolutionarily distant organisms as *E. coli*, yeast, *C. elegans*, *Drosophila*, barley, *Arabidopsis*, rice, and green algae, we have preliminarily identified the functional type of a number of the ESTs (Table 2). These include a novel gene similar to Notch/Tan-1 (Adams et al., *supra*), a new neurotransmitter transporter gene, and a new member of the multi-drug resistance gene family. Several genes involved in development or cell differentiation in *Drosophila* are represented by similar human ESTs, including seven in *absentia* (Carthew, R. & Rubin, G. *Cell* 63: 561-577 (1990)),

big-brain (bib) (Rao, Y., Jan, L., & Jan, Y. *Nature* 345: 163-167 (1990)), the discs tumor suppressor (Woods, D. & Bryant, P. *Cell* 66: 1-20 (1991)), and the homeotic gene orthodenticle (Finkelstein, R., Smouse, D. Capaci, T., Spradling, A. & Perrimon, N. *Genes. Dev.* 4: 1516-1527 (1990)). New members of gene families previously known in humans include a Ca^{+2} -transporting ATPase, an ADP ribosylation factor, and a new neural-cell adhesion molecule gene.

The 1971 ESTs without a putative identification were analyzed using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. *Proc. Natl. Acad. Sci. USA* 88: 11261-5 (1991)). Fifteen percent of the unknown ESTs scored an excellent probability of containing protein-coding sequence. Fifty percent of the ESTs to known human genes contain protein-coding sequences, therefore, at most half of the unknown ESTs are likely to contain coding sequences. We have found no evidence that genomic DNA or cDNA to unspliced precursor RNA is a major contaminant of either the hippocampus or fetal brain library.

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Table 2: ESTs Identified by Database Matches

SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID
208	EST00250	60K filarial antigen	A28209	PIR	108	56.9
2320	EST01784	60K filarial antigen	A28209	PIR	88	50.6
969	EST01982	ADP-ribosylation factor 1	B33283	PIR	84	41.2
1834	EST01620	AMP deaminase, brain	A37056	PIR	57	100.0
97	EST00289	Aconitase	A35544	PIR	105	90.6
251	EST00370	Actin, other	S10021	PIR	44	51.1
248	EST00271	Actinin, alpha	HUMACTAR	GB	271	85.3
891	EST01891	Actinin, alpha	HUMACTAR	GB	315	81.6
1500	EST02538	Actinin, alpha	HUMACTAR	GB	271	75.0
132	EST00110	Agrin	RATAGR	GB	269	82.2
1852	EST01625	Agrin	RATAGR	GB	103	84.6
1094	EST02113	Ala	HUMALA	GB	92	82.8
691	EST00675	Alcohol dehydrogenase	RICGOS2G_1	GPU	38	59.0
2408	EST00244	Amyloid A4	HUMAFPA4	GB	135	91.9
1965	EST01664	Amyloid A4	A29030	PIR	52	54.7
2068	EST01694	Amyloid A4	QRHUA4	PIR	83	69.0
2092	EST01700	Anion exchanger homolog AE3	A33638	PIR	95	97.9
1880	EST01634	Axonal glycoprotein TAG-1	A34695	PIR	69	87.1
1492	EST02530	B cell-specific Mo-MLV integration site 1 (bmi-1)	MUSBMI1A	GB	111	87.5
1277	EST02306	Bib protein	S09699	PIR	57	53.4
13	EST00255	Cadherins	CADN\$HUMAN	SP	41	45.2
1348	EST02378	cAMP-dependent protein kinase inhibitor	MUSPKI	GB	234	91.5
1931	EST01041	cAMP-regulated phosphoprotein	B35308	PIR	21	86.4
1413	EST02447	cAMP-specific phosphodiesterase	HUMPDEAA	GB	363	69.0
396	EST01443	CDPdiacylglycerol-serine O-phosphatidyltransferase	JH0368	PIR	33	41.2
1956	EST01663	Ca2+-transporting ATPase 2	B28065	PIR	125	88.9
1126	EST02146	Calbindin D28	RATCALBD28	GB	81	87.8
1039	EST02055	Calcium channel	S05054	PIR	33	67.6
1910	EST01645	Calmodulin	RATRCM1	GB	120	90.1
485	EST01466	Calmodulin-dependent protein kinase, type II, beta	A26464	PIR	93	98.9
913	EST01913	Clathrin coat assembly protein AP50 homolog	YSCYAP54_1	GPU	62	63.5
2004	EST01676	Cofilin	PIGCOFIL	GB	132	89.5
2400	EST01824	Cysteine-rich intestinal protein	GYRTI	PIR	56	66.7
1588	EST02633	D2223 repetitive DNA	HUMREP	GB	160	76.4
2192	EST01257	Diacylglycerol kinase, lymphocyte	S09156	PIR	44	42.2
1441	EST02477	Diamine acetyltransferase	ATDA\$HUMAN	SP	74	45.3
650	EST00642	Dilute (myosin heavy chain)	MUSDILUTE_1	GPU	27	100.0
2302	EST01779	Discs-large tumor suppressor	DRODLGA_1	GPU	53	63.0
188	EST00256	Enhancer of split	A30047	PIR	86	58.6
2289	EST01325	Fatty acid synthase	RATFAS	GB	98	79.8
310	EST00377	Fo ATPase beta subunit, mitochondrial	BOVMTASB	GB	293	85.4
1332	EST02362	GA binding protein, beta subunit	MUSGAC_1	GPU	86	90.8
1667	EST00825	Gamma-aminobutyric acid transporter	A35918	PIR	26	59.3
2217	EST01738	Gelation factor ABP-280	A37098	PIR	74	80.0
1412	EST02446	Glutamate-aspartate carrier protein	JV0092	PIR	57	37.9
1020	EST02034	Glutaminase	GLS\$RAT	SP	34	74.3
1885	EST01639	Histocompatibility antigen modifier 1	A37779	PIR	63	75.0
1495	EST02533	Hypothetical 43.5K protein	JU0319	PIR	43	52.3
2326	EST01791	Inositol-1,4,5-trisphosphate 3-kinase	JN0129	PIR	65	68.2
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID

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724	EST01529	Interferon-induced 54K protein	INI4\$HUMAN	SP	76	70.1
1035	EST02051	J1 protein	MUSJ1PRO	GB	362	85.7
1229	EST02258	KUP protein	HUMKUPMR_1	GPU	54	36.4
993	EST02007	Kinase 5 protein	CHKCEK5_1	GPU	68	94.2
77	EST00257	Kinesin	A35075	PIR	57	86.2
78	EST00258	Kinesin	A35075	PIR	62	47.6
2245	EST01748	Kinesin	A35075	PIR	98	52.5
2282	EST01764	Lamin B receptor	A36427	PIR	76	71.4
2173	EST01724	Lon protease	JQ0901	PIR	103	41.3
1427	EST02463	Long-chain-fatty-acid-CoA ligase	A36275	PIR	36	62.2
313	EST00276	Lysosomal membrane glycoprotein 1 (LAMP-1)	A31959	PIR	53	46.3
161	EST00247	MARCKS (myristoylated alanine-rich protein kinase	BOVMARCKS	GB	139	83.6
1386	EST02418	MARCKS homolog	MMF52	EU	237	92.4
769	EST00734	MARCKS homolog	S08341	PIR	61	40.3
43	EST00371	Maternal G10 protein	S05955	PIR	38	92.3
1468	EST02505	Matrin 3	RATMATRIN3	GB	137	93.5
639	EST00632	Membrane transport superfamily (GTP-dependent)	A24400	PIR	63	39.1
1894	EST01643	Membrane transport superfamily (GTP-dependent)	A24400	PIR	71	50.0
824	EST01865	Microtubule-associated protein 1B	RATNEU	GB	293	86.4
223	EST00368	Microtubule-associated protein 1B	A33645	PIR	30	54.8
2032	EST01683	Microtubule-associated protein 1B	A33645	PIR	49	62.0
2017	EST01678	Milk fat globule membrane protein	A36479	PIR	48	61.2
1704	EST01580	Myeloid differentiation primary response gene MyD1	MUSMYD118_1	GPU	76	88.3
2226	EST01744	NAD(P)+ transhydrogenase (B-specific)	DEBOXM	PIR	86	93.1
1567	EST02610	Neural cell adhesion molecule L1	S05479	PIR	82	43.4
506	EST01471	Neuraxin	S06017	PIR	120	84.3
1566	EST02609	Neutrophil oxidase factor	A34855	PIR	43	47.7
952	EST01961	Notch/Xotch	HUMTAN1_1	GPU	85	57.0
227	EST00259	Notch/Xotch	A35844	PIR	74	85.3
1395	EST02429	Nuclear factor 1-like protein (NF1)	HAMNF1A	GB	111	92.0
1681	EST01573	Nucleoside diphosphate kinase	A33386	PIR	71	52.8
346	EST01828	Otd homeotic protein	A35912	PIR	35	52.8
2254	EST01751	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase	A28807	PIR	40	90.2
1869	EST00992	Polymyxin B resistance	A32714	PIR	20	76.2
93	EST00287	Processing enhancing protein	S03968	PIR	96	58.8
2353	EST01806	Prohibitin	RATPROHIB_1	GPU	120	97.5
2297	EST01775	Prohormone cleavage enzyme	MUSMPC1A_1	GPU	91	93.5
9	EST00376	Prolyl endopeptidase	PIGPREP	GB	223	83.9
1069	EST02087	Protein kinase C, zeta	HUMPKCL	GB	382	58.7
1933	EST01650	Protein phosphatase 2A beta subunit	HUMPROP2A8	GB	288	76.8
202	EST00298	Protein-tyrosine phosphatase LRP	LRP\$MOUSE	SP	62	44.4
1654	EST01572	Protochlorophyllide reductase	S04783	PIR	34	57.1
38	EST00374	RNA polymerase II 6th subunit (RPO26)	A36352	PIR	72	75.3
1478	EST02515	Rab5	F34323	PIR	91	82.6
2368	EST01389	Radial spoke protein 3	S05962	PIR	58	52.5
37	EST00038	ras p21-like small GTP-binding protein (smg GDS)	BOVSMGGDS	GB	131	89.4
180	EST00299	ras-related proteins	S10493	PIR	51	46.1
1700	EST01579	Retrovirus-related gag polyprotein	FOHUE2	PIR	95	77.1
1511	EST02550	Retrovirus-related pol polyprotein	GNLJGL	PIR	50	54.9
102	EST00248	rho H12/ ARH12	BOVBGBRH	GB	195	79.6
1715	EST01583	Ribosomal protein L18a	R5RT18	PIR	68	95.7
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID

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1856	EST01627	Ribosomal protein L1a	A24579	PIR	75	63.1
1974	EST01667	Ribosomal protein L3	JQ0771	PIR	74	80.0
301	EST00300	Ribosomal protein L30	R6RT30	PIR	57	96.5
22	EST00301	Ribosomal protein S10	R3RT10	PIR	66	97.0
2402	EST01826	Ribosomal protein S10	R3YM10	PIR	36	51.4
463	EST01459	Ribosomal protein YL10	S11581	PIR	40	68.3
1408	EST02442	Seven in absentia	A36195	PIR	46	80.8
299	EST00249	smg p25A GDP dissociation inhibitor	A35652	PIR	97	77.5
951	EST01960	Spectrin, beta	HUMSPTB	GB	268	67.7
2089	EST01699	Sperm membrane protein	A35981	PIR	52	58.5
2073	EST01697	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	44	100.0
2138	EST01715	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	49	92.0
430	EST00472	Synaptotagmin (p65)	SY65*HUMAN	SP	27	53.6
1371	EST02402	Talin	MUSTALINR_1	GPU	79	81.2
1771	EST01601	Thiosulfate sulfurtransferase (rhodanese)	ROBO	PIR	65	81.8
300	EST00232	Transforming protein (dbl)	TVHUDB	PIR	25	65.4
189	EST00282	trkB	A35104	PIR	33	67.6
653	EST01512	Tubulin, alpha	HUMTUBAG	GB	223	75.0
594	EST01490	Tubulin, beta	HUMTBBS	GB	298	93.6
757	EST01542	Tubulin, beta	HUMTUBBM	GB	217	90.4
1245	EST02274	Tubulin, beta	A26561	PIR	105	88.7
1147	EST02169	Tyrosine kinase	HUMECK	GB	384	74.3
1701	EST00853	Unc-104	JN0114	NR	36	45.0
2121	EST01711	Valine-tRNA ligase	A29871	PIR	56	57.9
187	EST00152	Wilm's tumor-related protein	HUMQM	GB	228	99.6
1726	EST01588	XPR2 alkaline extracellular protease	B26955	PIR	88	46.1
249	EST00275	Zinc Finger Proteins	S06551	PIR	25	57.7
413	EST01446	Zinc Finger Proteins	S00754	PIR	45	60.9
469	EST01460	Zinc Finger Proteins	C32891	PIR	34	54.3
833	EST01560	Zinc Finger Proteins	S00754	PIR	105	67.0
1230	EST02259	Zinc finger proteins	S00754	PIR	71	62.5
1496	EST02534	Zinc finger proteins	A34612	PIR	50	45.1
2324	EST01352	Zinc Finger Proteins	S10397	PIR	29	56.7

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There is little redundancy in EST sequencing according to the present invention. Of the nuclear-encoded messenger RNAs, the most common ESTs were to the β -actin (0.6% of the EST clones) and myelin basic protein genes (MBP, 0.5% of the clones). MBP, a highly expressed structural component of nerve tissue (Kamholtz, J., de Ferra, F., Puckett, C., & Lazzarini, R. *Proc. Natl. Acad. Sci., USA* 83: 4962-4966 (1986)), displays four alternate splicing forms, of which at least two are present among the ESTs reported here. Other common ESTs were Gs-alpha gamma-actin and both a- and alpha-tubulin.

By matching ESTs to known database sequences, a phenotypic characterization of the tissue begins to emerge. Protein superfamilies matched by ESTs were grouped into three broad functional categories to assess the biological spectrum represented by these randomly selected cDNA clones. Structural and metabolic classes comprised about 30% of the ESTs with database matches. Twenty-five percent were involved in regulatory pathways and the remainder were not classifiable. Eleven of the eighteen enzymes of glycolysis and the citric acid cycle are represented by at least one subunit or isozyme. In addition, several genes not previously known to be expressed in the brain were matched, including spermine/spermidine acetyltransferase (Casero, R., Celano, P., Ervin, S., Applegren, N., Wiest, L. & Pegg, A. *J. Biol. Chem.* 266: 810-814 (1991)) and osteopontin (Young, M., Kerr, J., Termine, J., Wewer, U., Wang, M., McBride, W. & Fisher, L. *Genomics* 7:491-502 (1990)).

EXAMPLE 5

Mapping of ESTs to Human Chromosomes

Randomly selected ESTs corresponding to SEQ ID NOS. were assigned to chromosomes via PCR (see Table 3). Oligonucleotide primer pairs were designed from EST

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sequences to minimize the chance of amplifying through an intron. The oligonucleotides were 18-23 bp in length and designed for PCR amplification using the computer program INTRON (National Institutes of Mental Health, Bethesda, MD). The program is based on the assumptions that: 1) introns are genomic sequences that interrupt the coding and noncoding sequences of genes (Smith, J. Mol. Evol. 27:45-55 (1988)); 2) there are consensus sequences for splice junctions (Shapiro, et al., Nucl. Acids Res. 15:7155-7174 (1987)); and 3) that 90% of the human genes studied have 3' untranslated regions of mRNA not interrupted by introns in the genomic DNA (Hawkins, Nucl. Acids Res. 16:9893-9908 (1988)).

The program evaluates the likelihood that a given GG or CC dinucleotide represents a former exon-intron boundary. Specifically, every input strand is processed by the INTRON program twice, first evaluating the sense mRNA strand, and then processing the complementary or anti-sense strand. The program evaluates each sequence by finding all GG or CC pairs (possible former splice sites), searching for STOP codons in all three reading frames, and analyzing the GG or CC pairs surrounded by stop codons. All regions of the EST that are unlikely to contain splice junctions based on CC content, GG content, and stop codon frequency are then marked by the program in uppercase.

The creation of PCR primers from known sequences is well known to those with skill in the art. For a review of PCR technology see Erlich, H.A., PCR Technology; Principles and Applications for DNA Amplification. 1992. W.H. Freeman and Co., New York. ESTs were examined for the presence of stop codons in each reading frame and for consensus splice junctions. The presence of stop codons and absence of splice junction sequences are more characteristic of 3' untranslated sequences than of introns. The untranslated sequences are unique to a given gene; thus, primers from

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these regions are less likely to prime other members of a gene family or pseudogenes.

The primers were used in polymerase chain reactions (PCR) to amplify templates from total human genomic DNA. PCR conditions were as follows: 60 ng of genomic DNA was used as a template for PCR with 80 ng of each oligonucleotide primer, 0.6 unit of Tag polymerase, and 1 uCi of a ^{32}P -labeled deoxycytidine triphosphate. The PCR was performed in a microplate thermocycler (Techne) under the following conditions: 30 cycles of 94°C, 1.4 min; 55°C, 2 min; and 72°C, 2 min; with a final extension at 72°C for 10 min. The amplified products were analyzed on a 6% polyacrylamide sequencing gel and visualized by autoradiography. If the size of the resulting product was equivalent to the EST from which the primers are derived, then the PCR reaction was repeated with DNA templates from two panels of human-rodent somatic cell hybrids; BIOS PCRable DNA (BIOS Corporation) and NIGMS Human-Rodent Somatic Cell Hybrid Mapping Panel Number 1 (NIGMS, Camden, NJ).

PCR was used to screen a series of somatic cell hybrid cell lines containing defined sets of human chromosomes for the presence of a given EST. DNA was isolated from the somatic hybrids and used as starting templates for PCR reactions using the primer pairs from EST sequences selected above. Only those somatic cell hybrids with chromosomes containing the human gene corresponding to the EST will yield an amplified fragment. ESTs were assigned to a chromosome by analysis of the segregation pattern of PCR products from hybrid DNA templates. For a review of techniques and analysis of results from somatic cell gene mapping experiments. (See Ledbetter et al., *Genomics* 6:475-481 (1990).) The single human chromosome present in all cell hybrids that give rise to an amplified fragment represents the chromosome containing that EST.

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The assignment of 100 ESTs and corresponding genes to chromosomes by PCR is shown in Table 3.

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Table 3: Assignment of ESTs to Chromosomes by PCR

SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
5	EST00012	1	TCCAGGCAATCCCAGAATAG	CTAATTGAGCTCACTGGCCC
57	EST00058	1	CTGTTTGCAAGTTTCAAAGC	GCCATTTCTAACAACCAGAG
64	EST00066	1	GCCATTGTGCTGAATAGAGT	GTTAGTGTTCCTTAGCAAG
83	EST00079	1	CAGCTAATTGACCTGGGCTA	CAACATGCTCTGAGCTTTAG
83	EST00079	1	GGCAGAGCATAATGAGTATA	CATATGCATATGGTCCCTAT
91	EST00086	1	AGTTTAGATGGAGGGCTGTC	TCTGCCCTAATGCGCAGGCT
105	EST00365	1	CTTAATCACCTCCCTTTTGT	CCTTAGTTGGAGATAAGGTC
109	EST00095	1	AGTCTAATCCTGTACACTTG	CGGGCTTTCTCTGAATTGGT
116	EST00100	1	TTAGAAGTGCCCATGGGAGG	TTTAAAGGCTCTGGAGTGT
141	EST00118	1	CTCAGAGAACTTAGGTGAA	CTACAGAATCATTTCACCAG
220	EST00372	1	AAGTTGCACATTGCCCAAGG	ATAGTACTGCAAGGTTATTC
237	EST00187	1	TTACAAATTTCTCTTGACGC	CTGAAGGAGCACAGTTTCTC
242	EST00192	1	GGATCAGATAATCAAACAGG	GCTTAGGATATGAATGCATA
259	EST00202	1	GCATCACAGTTTAACTGAGG	CTACATATTTGTGCTCCTT
269	EST00293	1	CTGTTGCTGTGAGTAGCTT	CTTTTGACCCAGTGAAACTT
299	EST00249	1	GATCATGCAGACGTAGATAT	CCAACCTCTGCCAGATCATT
1651	EST00810	1	TAGTCGCTGTAAGTTGATTC	GCTTTGCTGGATGCTTCATT
16	EST00021	2	CAGGCAAGTTTCTTCCAGGA	TCAGACCCATGGTCAGCTT
1898	EST01013	2	GGCTGAGAACGGTTAGCATA	CCCTCAGCTTAGGGGAATG
8	EST00234	2	TAGAAGGCAAACTATGTCCC	GCTTGAGGATTGGCTTTTAC
36	EST00037	2	AGCCAGAAGGCTGCTTAAAG	GCAGTGAACCAGTACTCCTA
123	EST00106	2	GTCTAATTTGTAACTTCAG	GATAGATTGTATAAGAAGCC
192	EST00155	2	GATTTATGTCTGGGAATAA	GCAGCATGTGAAAGAATGAT
200	EST00162	2	TTTAATGGGTGGTGGGAGCT	CGATGCACATCCTTCTCCAT
284	EST00216	2	CCTAAGAATTCGTTTGGCTC	GTCTGGCACATAATAGATTG
102	EST00248	3	ATACTACATCTAGTCTGG	TTACAGTTCTGTGGTTTC
167	EST00138	3	AAACAGCTGCGGAGTACA	AAAGGATCCTCCACTCCAGA
12	EST00274	3	CCTAGCAAACTCATACACAC	CATAAGTGAATGGACACAGG
60	EST00062	3	ACACATTAACGGTGCTGCAG	GGAATCAGCCCTTGAGGACT
77	EST00257	3	AAGCTCACAACGCAGATCTG	CTGGAACAGCTTACAAAGGT
107	EST00093	3	ATTGAACTCTGTCAACAGTG	TGTAAACAAAGGCCAAACT
108	EST00094	3	AL2 - GCAGGATGTGAGTCTTTGAG	AGCACACATTATCTACCACGGC
1706	EST00857	3	AL2 - GCAGGATGTGAGTCTTTGAG	CCAGCACACATTATCTACCACG
37	EST00038	4	AACTTCGCAGTCATGAGAAC	TGTATCGGGCAGTTCTCAG
6	EST00013	4	CACATGTTCTCCCTCTTTCA	GCATTTTGGAGCTCTTCCGT
37	EST00038	4	AL2 - GGAAGTACAGGATTTGGC	TTAGAGATGGGATGATGCCG
31	EST00033	5	TGGGTACCCTAAGGTGTTTG	GACTAATCTAAGGTCTAGG
28	EST00030	5	AGATAAGTTAGGAAGCTGGT	ACTCACTGCTAGTATCATCC
59	EST00061	5	AAAGTTTCTTAGCACCCCCC	CAGACTTTGACAAAAGAATC
74	EST00073	5	ATCAGACACGTGGCAGGGTT	AAGTCCCTGAGGGTGCAGAA
121	EST00104	5	TGAAGGCAGCTGCTAAATCT	GGATGTATTGATCTGACTCA
149	EST00123	5	ATACTGTCAACGGAGGGTGA	GTCTGCAGGTTTCTCCTTGA
235	EST00185	5	TTACTGTCCCATCAGATATC	TACACTCTTAAAGAAGGTATG
1643	EST00803	5	GAGCGTTTAAAAGAGATTCT	TACAGACAGCCATGTTCCAA
1677	EST00835	5	AL2 - TCTCCAACACAGTCATGC	CGGATGCCATCATATACC
23	EST00026	5	CCTGCAGTGACACTTAACAT	CTGCTCACCTGAAATTGATAC
121	EST00104	5	AL2 - CAGATCAATACATCCTCTGGG	CTGTGCAGTGGTGAGTAAAAGG

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SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
1	EST00007	6	TAGTTGATGGTCTGGGTTAT	GAAATCCCAGGGAGACAATG
19	EST00023	6	CAACTTACATTAGGGGTTTG	GACCTCATTAGAAGAGCCCA
155	EST00129	6	GGAAGCTGCCATATAAGCTC	TCAGTGTCTGACAACTCTACC
224	EST00356	6	GCTGTATGTTAACCCCTTGT	TGGAACCCCTCAAACACTGCT
288	EST00219	6	ACTTTCATGTTGAGAAGTAT	ATCTAGCTGAAACATTGCTG
1638	EST00798	6	CTTCATCTGTTAACTGTTGA	TGAAAATGAGTCACAGGCAG
1675	EST00833	6	AL2-ACCCAGTTCTCAAAGACC	GGTTTACCATTTCAGAGGC
22	EST00301	6	CTCCGTGATTACCTTCATCT	TTGTAGGTATCTCTGTCTAGCT
207	EST00167	7	GGTGCTACTTTGTGAATGCT	AGCAATGTGATTTTGTAGG
137	EST00272	7	AGTGGTCACTATCTACATGG	GATTTCAGAACTACTAAGCCG
1659	EST00817	7	TGTATAGGCTCTACATAAAG	CTTAATCATGGATTCTTTCGT
1680	EST00838	7	AL2-GTTCTTTCCCAGGTATGC	TTGTTGGTACTGAGGAAGTGCG
292	EST00223	8	TGCAGCAGTGACCATGAGAA	ATCATCTTTCCACGCGGCTT
134	EST00375	9	TCTGGGCTTCTGTGGTTCAA	CTGGCTGCTCAGCAACTCAT
1906	EST01021	9	GGATGTTTTCTATGTGACGA	TTCCAGTGCCCTTTTGTCC
1645	EST00804	10	CTCCTTTGGGACAAACAAC	CCAACCCAAACATATTCTA
20	EST00024	10	AGCTGTTCTCTGAGAGATGCA	CCTTGTAAGAAAGACTTTC
157	EST00131	10	TCAGCAACAGGTCACCTTGG	CTAAGCATCTGCATCTCCAG
172	EST00142	10	TACTAGCATTTCTTACTCTC	TATGCTGATTGTTTGCACCTC
250	EST00197	10	GGTGATTAGAGAGTCTGTTG	GAACCTCTGAGTGTCTTAAA
133	EST00111	11	GGAAATTAGGCTTAGCTCAC	GTGCAGAATACTTAGAGTCC
178	EST00294	11	GTTTGAAGGAAGTGATTTC	TAGGGCCACCTCCAGTTTCAT
10	EST00016	11	GTCTTTGGATTCTACGTAGA	CGATAATGACATTTCTTCTGG
126	EST00109	11	AL2-CTAACCACAACCCACACATTG	CCTCAGCAAGAGAAGAATGG
7	EST00014	12	AACCTTGCAACATAAATACTAG	GAGCAATGATTTCTAACAGT
254	EST00200	13	TTGTGTACTGTCTGATAGAC	TAAGCCATGGGCATCTATAA
2409	EST00273	13	GCAAGATGATGGAACATCCC	TTCTTCTGGAGGCTCTACA
170	EST00295	14	GGTGCTTAAGGCCACTTTTG	CTTAGAGGATCATAGGTCTG
255	EST00201	14	CCAGGAGAGTAAGAAGATCA	GCAGAGTTGAATATGAACCT
290	EST00221	14	GTGCCAAGATGGCTCATGTA	GTATAGCTTTAAGCCAGTTC
293	EST00224	14	AATGCATTATGCCTGGTCTT	GGAAAAGTCTAGAACTTAGT
1664	EST00822	14	GGGTCAGAAATTAAGAGGTCT	GTTTCATCTCTAACTCCTTTC
315	EST00008	14	AAGCTGGCTGGGAAATGTTT	GTCATGCTAGTAACTTACAC
1689	EST00845	14	AL2-AGGAGGAAGCTGAAATCC	GGAAGTCCATAAGAGACTCACC
95	EST00088	15	GTGACAGACCATGTCTATTG	AAGTGAGCGATTGCACCTTC
205	EST00165	15	AGGATGACCTGAGTGAGCTG	CCATGGCAGCAAGGAACCTCT
33	EST00034	16	TGTGTGAAAGGGAGTCTTGT	CCATTTTGACTGTTCCATAG
247	EST00279	16	TGGCTAGGGCAGGCCTTAAA	GAGAAGAATATCAAATGGGG
18	EST00373	16	CCATCTGTGTCCCAATTAAGC	AGGGAAGAAGTCTAGAGCGA
68	EST00068	17	CAAAGACGGGAGACGAATGA	AGTGGAACGCGTGCCCTATG
1652	EST00811	17	GAGCTGCATGTTGATAAGTA	TTGACTTAAGCTGACCTTAA
1702	EST00854	17	AL2-TTGCTGTGGAATCCATGAGAG	GGCAAGTGATCTGTTCTTGG
84	EST00080	19	AGAGATGTCAGTCCATTATC	CTATTCCACCTTACTCAAGG
223	EST00368	19	CATCATGTCCGAGACGCATT	TGGATGACCTGAGTCTGCAG
21	EST00025	20	AGTTCTGGAGGCTAGGAGTT	ATGTAAGGACCCCTAGATGG
210	EST00168	20	TGTCAACTTCCCTTTGGCCT	GAAGCTTGCTCATTACAGGAA
136	EST00113	20	AL2-TCGGAGAAGTTGCAGTTTCTG	GTTAAAGCTGTTAGACGGGGC
120	EST00103	22	CACTGACTGACTCCTCTTTA	GGAACCGTAACTCTCCATAG
313	EST00276	X	ATTGACCTTCAATGTAATAA	TTGGATTGGGCAAAATAG

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<u>SEQ ID</u>	<u>EST#</u>	<u>Chr</u>	<u>PRIMER #1</u>	<u>PRIMER #2</u>
162	EST00133	X	ATGTGAGCATCTATACCTGC	AATGAAGGCATGAGAATAGG
1669	EST00827	X	CGGACAACTAGGATAAATGC	TACGCGTTTGAATGGCTTGA
1917	EST01029	X	GAATAGCATTATTAGCCAGT	GGACCTATTGGAGATCTACT
1708	EST00858	X	AL2-AAGGCGAGGATTATGTGC	TTCTACTGGGTACACTTCGACC

Abbreviation: AL2: Amino-Link-2 Fluorescent Tag, Chr.: Chromosome.

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The foregoing techniques have been used to further localize 9 ESTs and their associated genes to precise locations onto chromosome 6 or chromosome X, as reflected in Table 4A (in Example 7 below), using sublocalization techniques that employ somatic cell hybrids. ESTs were used as hybridization probes and mapped to other chromosomes using techniques disclosed in Example 7. Somatic cell hybrids were prepared that contained defined subsets of chromosomes 6 and X. Methods for preparing and selecting somatic cell hybrids are known in the art. For a review of an exemplary procedure to generate somatic cell hybrids containing the short arm of human chromosome 6, see Zoghbi, et al., *Genomics* 9(4):713-720 (1991). For a general review of somatic cell hybridization see Ledbetter et al. (*supra*). The hybrids were processed to obtain DNA and analyzed by PCR and by fluorescence in situ hybridization. SEQ ID NOs 19, 22, 1, 224, 288 mapped to chromosome 6, while SEQ ID NOs 162, 1917, 1699 and 1899 mapped to chromosome X using somatic cell hybrids.

EXAMPLE 6

Mapping of All ESTs to Human Chromosomes

The procedure of Example 5 is repeated for all of the ESTs from Examples 1 and 2 not previously mapped to human chromosomes. Data are generated corresponding to the data in Table 3 for all of the unmapped ESTs. As previously mentioned, virtually all of the ESTs will map to a unique chromosomal location. The inability of any ESTs to localize to a unique location will be readily ascertainable during the mapping process.

Physical mapping of the type reported in Table 4 on all the EST clones reported here would provide human chromosome markers spaced on average every 1.2 megabases and would roughly double the number of expressed sequences that have been localized to chromosomes (McKusick, V. FASEB

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J. 5: 12-20 (1991)). Mapped ESTs are also a new resource to identify candidates for the estimated 5000 single-locus disease-associated genes (Id.).

EXAMPLE 7

5 Alternative Technique for Mapping to Chromosomes
 Mapping of ESTs to chromosomes using fluorescence in situ
 hybridization

10 This technique was used to map an EST to a particular location on a given chromosome. Cell cultures, tissue, or whole blood were used to obtain chromosomes.

 0.5 ml. of whole blood was added to RPMI 1640 and incubated 96 hours in a 5%CO₂/37°C incubator. 0.05 ug/ml colcemide was added to the culture one hour before harvest. Cells were collected and washed in PBS. The suspension was incubated with a hypotonic solution of KCl added dropwise to reach a final volume of 5 ml. The cells were spun down and fixed by resuspending the cells in methanol and glacial acetic acid (3:1). The cell suspension was dropped onto glass slides and dried.

20 The slides were treated with RNase A and washed then dehydrated in a series of increasing concentrations of ethanol.

 The EST to be localized was nick-translated using fluorescently labeled nucleotide (Korenberg, Jr., et al., Cell 53(3):391-400 (1988)). Following nick translation, unincorporated label was removed by spin dialysis through Sepharose. The probe was further extracted with phenol-chloroform to remove additional protein. The chromosomes were denatured in formamide using techniques known in the art and the denatured probe was added to the slides. Following hybridization, the cells were washed. The slides were studied under a fluorescent microscope. In addition, the chromosomes can be stained for G-banding or Q-banding using techniques known in the art.

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The resulting metaphase chromosomes had fluorescent tags localized to those regions of the chromosome that were homologous to the EST. Thus, a particular EST was localized to a particular region on a given chromosome. In this manner, SEQ ID NOs 396, 485, 506, 1880 and 1894 were mapped using fluorescent in situ hybridization to locations on chromosomes 17, 7, 10 and 1 respectively (See Table 4B below). For a review of the technique see Verma et al., *Human Chromosomes: A Manual of Basic Techniques*. Pergamon Press, NY (1988), which is hereby incorporated by reference.

Table 4: Precise Chromosomal Localization of ESTs

	SEQ ID	EST#	Map Location
	-----	-----	-----
15	A.	19	EST00023 6p
		22	EST00301 6p
		1894	EST01643 6p21
		1	EST00007 6q
		224	EST00356 6q
		288	EST00219 6q
20		162	EST00133 Xp11.21 - Xp21.2
		1917	EST01029 Xp11.21 - Xp21.2
		1669	EST00827 Xq26 - Xq27.1
		1899	EST01014 Xq28
25	B.	1880	EST01634 1q32
		485	EST01466 7p13
		506	EST01471 10q11.2
		396	EST01443 17q25

EXAMPLE 8

Automated DNA Sequencing Accuracy

ESTs that match human sequences in GenBank are excellent tools for the analysis of the accuracy of double-strand automated DNA sequencing. Ninety EST/GenBank matches were examined for the number of nucleotide mismatches and gaps required to achieve optimal alignment by the Genetics Computer Group (GCG) program BESTFIT (Devereux et al, *Nucleic Acids Research* 12: 387 (1984)).

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5 The number of mismatches, insertions and deletions was counted for each hundred bases of the sequence (Table 5). As expected, the sequence quality was best closest to the primer and decreased rapidly after about 400 bases. The number of deletions and insertions relative to the GenBank reference sequence increased five- to ten-fold beyond 400 bases, while the number of mismatches doubled. The average accuracy rate for individual double-stranded sequencing runs was 97.7% to 400 bases.

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TABLE 5. Accuracy Of Single-Run Double-Stranded Automated Sequencing

<u>Bases from Primer</u>	<u>Mismatches/ Ambiguities</u> ⁺	<u>Gaps Insertions</u> ⁺	<u>Percent Deletions</u> ⁺	<u>Aligned Accurate</u>	<u>Bases</u>
101 - 200	1.45	0.18	0.19	98.2	8,800
201 - 300	1.72	0.25	0.11	97.9	8,130
301 - 400	2.07	0.98	0.37	96.6	5,404
>400	3.53	2.63	1.06	92.8	3,197

ESTs statistically identical to known human sequences and those matching mitochondrial and ribosomal genes were aligned with sequenced from GenBank using the GCG program BESTFIT. The first 85 nucleotides was polylinker sequence which was not aligned with the pBluescript SK reference sequence. Tabulation of errors began 15 bases into the BESTFIT alignment and thus is reported beginning with bases 101-200. ⁺Error rates are reported as number of mismatches, insertions, or deletions per hundred aligned bases. "Mismatches" includes ambiguous base calls.

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EXAMPLE 9

Probability of ESTs Containing Coding Sequences

5 The ESTs of the present invention were statistically
evaluated using the coding-region prediction program CRM
via the GRAIL server (Uberbacher, E. & Mural, R. Proc.
10 Natl. Acad. Sci. USA, 88: 11261-5 (1991)). The CRM program
uses a neural network to combine results from several
different coding regions by looking at different 6 bp
sequences found in coding exons and in introns. The
15 program additionally conducts reading frame searches and
assesses randomness at the third position of codons. This
protocol categorizes sequences as having an excellent,
good, marginal, or poor probability of containing coding
regions. The results are reported in Tables 6-9. There
were 219 ESTs categorized as "excellent" (Table 6); 120
categorized as "good" (Table 7); 113 categorized as
"marginal" (Table 8); and 1743 categorized as "poor" (Table
9). These results indicate that most ESTs of the present
invention comprise noncoding regions.

Table 6: ESTs with Excellent Probability of Containing Coding Sequence

SEQ ID#	EST#				
7	EST00014	973	EST01987	1807	EST00941
15	EST00020	979	EST01993	1809	EST00943
48	EST00291	980	EST01994	1820	EST00951
62	EST00064	986	EST02000	1829	EST00958
66	EST00067	1000	EST02014	1849	EST00975
75	EST00074	1004	EST02018	1860	EST00983
98	EST00260	1007	EST02021	1866	EST00989
106	EST00092	1018	EST02032	1871	EST00994
108	EST00094	1021	EST02035	1888	EST01005
114	EST00098	1034	EST02050	1890	EST01007
115	EST00099	1047	EST02063	1892	EST01009
124	EST00107	1090	EST02109	1903	EST01018
128	EST00252	1096	EST02115	1904	EST01019
156	EST00130	1115	EST02135	1914	EST01026
164	EST00135	1118	EST02138	1930	EST01040
166	EST00137	1129	EST02149	1944	EST01050
174	EST00296	1133	EST02153	1949	EST01054
179	EST00145	1141	EST02163	1962	EST01062
183	EST00148	1163	EST02187	1973	EST01071
201	EST00163	1183	EST02208	1977	EST01075
205	EST00165	1243	EST02272	1982	EST01080
215	EST00172	1264	EST02293	1991	EST01088
230	EST00181	1265	EST02294	1993	EST01090
253	EST00199	1266	EST02295	2000	EST01097
263	EST00203	1287	EST02317	2001	EST01098
268	EST00369	1308	EST02338	2012	EST01106
270	EST00207	1324	EST02354	2013	EST01107
271	EST00283	1344	EST02374	2024	EST01117
273	EST00208	1356	EST02386	2043	EST01131
276	EST00211	1365	EST02396	2051	EST01138
281	EST00214	1383	EST02415	2056	EST01142
285	EST00286	1399	EST02433	2058	EST01144
333	EST00394	1401	EST02435	2059	EST01145
336	EST00397	1405	EST02439	2064	EST01149
339	EST00400	1417	EST02452	2090	EST01167
362	EST00418	1451	EST02487	2094	EST01171
389	EST00440	1457	EST02493	2116	EST01192
441	EST00481	1463	EST02500	2117	EST01193
454	EST00493	1473	EST02510	2128	EST01202
476	EST00509	1479	EST02516	2131	EST01205
493	EST00522	1516	EST02555	2134	EST01208
504	EST00529	1528	EST02569	2144	EST01216
516	EST00538	1531	EST02572	2145	EST01217
518	EST00540	1544	EST02586	2150	EST01222
551	EST01482	1551	EST02593	2155	EST01227
552	EST00565	1558	EST02601	2161	EST01231
559	EST00570	1561	EST02604	2163	EST01238
582	EST00592	1581	EST02625	2174	EST01242
602	EST00606	1586	EST02631	2176	EST01244
606	EST00609	1591	EST02636	2189	EST01255
608	EST00611	1616	EST02661	2214	EST01272
621	EST00620	1624	EST02670	2225	EST01278
635	EST00629	1630	EST02676	2227	EST01279
642	EST00634	1637	EST00796	2233	EST01284
644	EST00636	1639	EST00799	2235	EST01286
687	EST00671	1649	EST00808	2236	EST01287
700	EST00683	1651	EST00810	2255	EST01302
743	EST00714	1677	EST00835	2259	EST01304
753	EST00721	1682	EST00839	2263	EST01307
760	EST00726	1694	EST00849		
764	EST00729	1706	EST00857	SEQ ID#	EST#
808	EST00761	1708	EST00858	2267	EST01756
823	EST01864	1710	EST00860	2281	EST01321
834	EST00771	1716	EST00865	2283	EST01322
886	EST01886	SEQ ID#	EST#	2300	EST01333
919	EST01921	1718	EST00867	2303	EST01335
930	EST01933	1731	EST00879	2303	EST01335
936	EST01939	1742	EST00887	2314	EST01345
948	EST01957	1746	EST00891	2334	EST01358
965	EST01978	1760	EST00903	2339	EST01362
		1767	EST00907	2342	EST01365
		1769	EST00909	2348	EST01371
		1777	EST00913	2358	EST01379
				2367	EST01388

Table 7: ESTs with Good Probability of Containing Coding Sequence

<u>SEQ ID#</u>	<u>EST#</u>				
20	EST00024	1041	EST02057	2362	EST01383
72	EST00071	1083	EST02102	2378	EST01397
82	EST00078	1099	EST02118	2399	EST01423
88	EST00084	1105	EST02124	2407	EST02714
137	EST00272	1113	EST02133		
177	EST00328	1139	EST02161		
193	EST00156	1146	EST02168		
200	EST00162	1196	EST02221		
218	EST00175	1210	EST02238		
228	EST00179	1233	EST02262		
247	EST00279	1285	EST02314		
264	EST00204	1331	EST02361		
267	EST00297	1388	EST02421		
296	EST00228	1418	EST02453		
371	EST00426	1439	EST02475		
385	EST00436	1502	EST02540		
392	EST00442	1537	EST02578		
414	EST00460	1563	EST02606		
433	EST00474	1599	EST02644		
453	EST00492	1602	EST02647		
471	EST00505	1693	EST00848		
496	EST00525	1695	EST00850		
524	EST00544	1729	EST00877		
526	EST00546	1730	EST00878		
529	EST00549	1738	EST00883		
549	EST00563	1739	EST00885		
557	EST00569	1743	EST00888		
578	EST00588	1768	EST00908		
596	EST00602	1780	EST00916		
607	EST00610	1804	EST00938		
619	EST00619	1805	EST00939		
657	EST00646	1811	EST00945		
660	EST00649	1819	EST00950		
689	EST00673	1826	EST00956		
695	EST00679	1830	EST00959		
699	EST00682	1845	EST00971		
729	EST00703	1848	EST00974		
742	EST00713	1853	EST00977		
747	EST00717	1967	EST01066		
755	EST00723	1992	EST01089		
759	EST00725	1994	EST01091		
776	EST00738	<u>SEQ ID#</u>	<u>EST#</u>		
778	EST00740	1997	EST01094		
782	EST01551	2046	EST01134		
829	EST00768	2101	EST01177		
835	EST00772	2102	EST01178		
836	EST00773	2105	EST01181		
862	EST01872	2106	EST01182		
881	EST01881	2141	EST01213		
<u>SEQ ID#</u>	<u>EST#</u>	2184	EST01251		
884	EST01884	2196	EST01260		
924	EST01926	2203	EST01264		
929	EST01932	2232	EST01283		
938	EST01941	2308	EST01339		
971	EST01985	2345	EST01368		
995	EST02009	2346	EST01369		
996	EST02010	2351	EST01373		
1031	EST02046	2354	EST01375		
		2355	EST01376		
		2359	EST01380		

Table 8: ESTs with Marginal Probability of Containing Coding Sequence

<u>SEQ ID#</u>	<u>EST#</u>		
11	EST00018	1222	EST02251
12	EST00274	1224	EST02253
24	EST00027	1228	EST02257
45	EST00364	1267	EST02296
79	EST00076	1301	EST02331
90	EST00302	1397	EST02431
110	EST00096	1448	EST02484
144	EST00120	1480	EST02517
145	EST00121	1493	EST02531
192	EST00155	1499	EST02537
222	EST00177	1503	EST02541
234	EST00184	1527	EST02568
277	EST00212	1536	EST02577
319	EST00381	1548	EST02590
368	EST00423	1562	EST02605
370	EST00425	1572	EST02615
387	EST00438	1575	EST02618
402	EST00451	1595	EST02640
415	EST00461	1608	EST02653
418	EST00464	1610	EST02655
426	EST00470	1621	EST02667
503	EST00528	1627	EST02674
517	EST00539	1629	EST02677
522	EST00543	1631	EST02678
532	EST00551	1683	EST00840
540	EST00557	1692	EST00847
570	EST00580	1751	EST00895
573	EST00583	1756	EST00900
576	EST00586	1764	EST02690
613	EST00615	1770	EST00910
617	EST00617	1793	EST00929
626	EST00622	1847	EST00973
681	EST00665	1877	EST00998
726	EST00700	1897	EST01012
727	EST00701	1900	EST01015
738	EST00711	1939	EST01655
745	EST00715	1940	EST01046
752	EST00720	1954	EST01058
791	EST00746	<u>SEQ ID#</u>	<u>EST#</u>
795	EST00749	1990	EST01087
803	EST00756	2008	EST01103
845	EST00777	2031	EST01123
852	EST00782	2041	EST01130
854	EST00784	2044	EST01132
907	EST01907	2060	EST01146
912	EST01912	2100	EST01176
935	EST01938	2136	EST01210
<u>SEQ ID#</u>	<u>EST#</u>	2153	EST01225
968	EST01981	2204	EST01265
985	EST01999	2212	EST01270
988	EST02002	2248	EST01297
1043	EST02059	2250	EST01299
1081	EST02100	2266	EST01310
1089	EST02108	2309	EST01340
1116	EST02136	2347	EST01370
1134	EST02154	2388	EST01406
1205	EST02233	2398	EST01422
		2405	EST01427

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498	EST01467	600	EST01492	697	EST00680	799	EST00752	894	EST01894
499	EST01468	601	EST01493	698	EST00681	800	EST00753	895	EST01895
500	EST00527	603	EST01494	701	EST01522	801	EST00754	896	EST01896
501	EST02715	604	EST00607	702	EST00684	804	EST00757	897	EST01897
502	EST01469	605	EST00608	703	EST00685	805	EST00758	898	EST01898
507	EST00530	609	EST01496	704	EST00686	806	EST00759	899	EST01899
508	EST00531	610	EST00612	705	EST00687	807	EST00760	900	EST01900
509	EST01472	611	EST00613	706	EST00688	809	EST00762	901	EST01901
510	EST00532	612	EST00614	708	EST00689	810	EST00763	902	EST01902
511	EST00533	615	EST00616	709	EST00690	811	EST00764	903	EST01903
512	EST00534	616	EST01497	710	EST00691	813	EST00765	904	EST01904
513	EST00535	618	EST01498	711	EST00692	814	EST00766	905	EST01905
514	EST00536	620	EST01499	712	EST00693	815	EST01855	906	EST01906
515	EST00537	622	EST01843	713	EST00694	816	EST01856	908	EST01908
519	EST00541	623	EST00621	714	EST00695	817	EST01857	909	EST01909
520	EST00542	624	EST01500	715	EST01523	818	EST01858	910	EST01910
521	EST01474	625	EST01844	716	EST01524	819	EST01859	911	EST01911
523	EST01838	627	EST00623	717	EST01525	820	EST01860	914	EST01914
525	EST00545	628	EST01503	718	EST00696	822	EST01863	915	EST01915
527	EST00547	629	EST00624	719	EST01526	825	EST01866	916	EST01917
528	EST00548	630	EST01505	720	EST00697	826	EST01867	917	EST01919
530	EST01477	631	EST00625	721	EST01527	827	EST01558	918	EST01920
531	EST00550	632	EST00626	722	EST01528	828	EST00767	920	EST01922
533	EST00552	633	EST00627	723	EST00698	830	EST01559	921	EST01923
534	EST01478	634	EST00628	725	EST00699	831	EST00769	922	EST01924
535	EST00553	636	EST01507	728	EST00702	832	EST00770	923	EST01925
536	EST01479	637	EST00630	730	EST00704	837	EST01561	925	EST01927
537	EST00554	638	EST00631	731	EST00705	838	EST00774	926	EST01929
538	EST00555	640	EST01509	732	EST00706	839	EST01562	927	EST01930
539	EST00556	641	EST00633	733	EST00707	840	EST00775	928	EST01931
541	EST00558	643	EST00635	734	EST00708	841	EST00776	931	EST01934
542	EST01480	645	EST00637	735	EST00709	842	EST01563	932	EST01935
543	EST00559	646	EST00638	736	EST01532	843	EST01564	933	EST01936
544	EST00560	647	EST00639	737	EST00710	844	EST01565	934	EST01937
545	EST01481	648	EST00640	739	EST01534	846	EST00778	937	EST01940
547	EST00561	649	EST00641	740	EST01535	847	EST00779	939	EST01943
548	EST00562	651	EST00643	741	EST00712	848	EST01566	SEQ ID#	EST#
550	EST00564	652	EST01510	744	EST01537	849	EST01567	940	EST01944
553	EST00566	654	EST00644	746	EST00716	850	EST00780	941	EST01945
555	EST01483	655	EST00645	748	EST01850	851	EST00781	942	EST01947
556	EST00568	656	EST01513	749	EST00719	SEQ ID#	EST#	943	EST01948
558	EST01484	658	EST00647	750	EST01539	853	EST00783	944	EST01949
560	EST01485	659	EST00648	751	EST01540	855	EST00785	945	EST01950
561	EST00571	661	EST00650	754	EST00722	856	EST01568	946	EST01953
562	EST00572	662	EST00651	SEQ ID#	EST#	857	EST01868	947	EST01954
563	EST00573	663	EST00652	756	EST01541	858	EST01869	949	EST01958
564	EST00574	664	EST00653	758	EST00724	859	EST01870	950	EST01959
565	EST00575	665	EST00654	761	EST01544	860	EST00786	953	EST01962
566	EST00576	SEQ ID#	EST#	762	EST00727	861	EST01871	954	EST01963
567	EST00577	666	EST01514	763	EST00728	863	EST01873	956	EST01968
568	EST00578	667	EST00655	765	EST00730	864	EST00787	957	EST01969
569	EST00579	668	EST00656	766	EST00731	865	EST01569	958	EST01970
SEQ ID#	EST#	669	EST00657	767	EST00732	866	EST01874	959	EST01972
571	EST00581	670	EST00658	768	EST00733	867	EST01875	960	EST01973
572	EST00582	671	EST00659	770	EST00735	868	EST01876	961	EST01974
574	EST00584	672	EST00660	771	EST01546	869	EST00788	962	EST01975
575	EST00585	673	EST01515	772	EST00736	870	EST00789	963	EST01976
577	EST00587	674	EST01516	774	EST01548	871	EST00790	964	EST01977
580	EST00590	675	EST00661	775	EST00737	872	EST00791	966	EST01979
581	EST00591	676	EST00662	777	EST00739	873	EST00792	967	EST01980
583	EST00593	677	EST00663	779	EST00741	874	EST00793	970	EST01983
584	EST00594	678	EST01517	780	EST01549	875	EST00794	972	EST01986
585	EST00595	679	EST01518	781	EST01550	876	EST00795	974	EST01988
586	EST00596	680	EST00664	783	EST01552	877	EST01877	975	EST01989
587	EST01488	682	EST00666	785	EST01553	878	EST01878	976	EST01990
588	EST00597	683	EST00667	786	EST00742	879	EST01879	977	EST01991
589	EST00598	684	EST00668	787	EST00743	880	EST01880	978	EST01992
590	EST00599	685	EST00669	788	EST00744	882	EST01882	981	EST01995
591	EST01489	686	EST00670	789	EST00745	883	EST01883	982	EST01996
592	EST00600	688	EST00672	790	EST01554	885	EST01885	983	EST01997
593	EST00601	690	EST00674	792	EST00747	887	EST01887	984	EST01998
595	EST01840	692	EST00676	793	EST00748	889	EST01889	987	EST02001
597	EST00603	693	EST00677	794	EST01555	890	EST01890	989	EST02003
598	EST00604	694	EST00678	796	EST00750	892	EST01892	990	EST02004
599	EST00605	696	EST01521	797	EST00751	893	EST01893	991	EST02005

992	EST02006	1086	EST02105	1184	EST02209	1274	EST02303	1363	EST02394
994	EST02008	1087	EST02106	1185	EST02210	1275	EST02304	1364	EST02395
997	EST02011	1088	EST02107	1186	EST02211	1276	EST02305	1366	EST02397
999	EST02013	1091	EST02110	1187	EST02212	1278	EST02307	1367	EST02398
1001	EST02015	1093	EST02112	1188	EST02213	1279	EST02308	1368	EST02399
1002	EST02016	1095	EST02114	1189	EST02214	1280	EST02309	1370	EST02401
1003	EST02017	1097	EST02116	1190	EST02215	1281	EST02310	1372	EST02403
1005	EST02019	1098	EST02117	1191	EST02216	1282	EST02311	1373	EST02404
1006	EST02020	1100	EST02119	1192	EST02217	1283	EST02312	1375	EST02406
1008	EST02022	1101	EST02120	1193	EST02218	1284	EST02313	1376	EST02407
1009	EST02023	1102	EST02121	1194	EST02219	1286	EST02316	1377	EST02408
1010	EST02024	1104	EST02123	1195	EST02220	1288	EST02318	1378	EST02409
1011	EST02025	1106	EST02125	1197	EST02222	1289	EST02319	1379	EST02410
1012	EST02026	1107	EST02126	1198	EST02223	1290	EST02320	1380	EST02411
1013	EST02027	1108	EST02127	1199	EST02224	1291	EST02321	1381	EST02413
1014	EST02028	1109	EST02128	1200	EST02226	1292	EST02322	1382	EST02414
1015	EST02029	1110	EST02129	1201	EST02228	1293	EST02323		
1016	EST02030	1111	EST02131	1202	EST02229	1294	EST02324		
1017	EST02031	1112	EST02132	1203	EST02230	1295	EST02325		
1019	EST02033	1114	EST02134	1204	EST02232	1296	EST02326		
1022	EST02036	1117	EST02137	1206	EST02234	SEQ ID#	EST#		
1023	EST02037	1119	EST02139	1207	EST02235				
1024	EST02038	1120	EST02140	1208	EST02236	1298	EST02328		
1025	EST02040	1121	EST02141	1209	EST02237	1299	EST02329		
1026	EST02041	1122	EST02142	SEQ ID#	EST#	1300	EST02330		
1027	EST02042	1123	EST02143			1302	EST02332		
1028	EST02043	1124	EST02144	1211	EST02239	1303	EST02333		
1029	EST02044	1125	EST02145	1212	EST02240	1304	EST02334		
1030	EST02045	SEQ ID#	EST#	1213	EST02241	1305	EST02335		
1032	EST02048			1214	EST02242	1306	EST02336		
1033	EST02049	1127	EST02147	1215	EST02244	1307	EST02337		
1036	EST02052	1128	EST02148	1216	EST02245	1309	EST02339		
SEQ ID#	EST#	1130	EST02150	1217	EST02246	1310	EST02340		
1037	EST02053	1131	EST02151	1218	EST02247	1311	EST02341		
1038	EST02054	1132	EST02152	1219	EST02248	1313	EST02343		
1040	EST02056	1135	EST02155	1220	EST02249	1314	EST02344		
1042	EST02058	1136	EST02156	1221	EST02250	1315	EST02345		
1044	EST02060	1137	EST02157	1223	EST02252	1316	EST02346		
1045	EST02061	1138	EST02159	1225	EST02254	1317	EST02347		
1046	EST02062	1140	EST02162	1226	EST02255	1318	EST02348		
1048	EST02064	1142	EST02164	1227	EST02256	1319	EST02349		
1049	EST02065	1143	EST02165	1232	EST02261	1320	EST02350		
1050	EST02066	1144	EST02166	1234	EST02263	1321	EST02351		
1051	EST02067	1145	EST02167	1235	EST02264	1322	EST02352		
1052	EST02068	1148	EST02170	1236	EST02265	1323	EST02353		
1053	EST02069	1149	EST02171	1237	EST02266	1325	EST02355		
1054	EST02070	1150	EST02172	1238	EST02267	1326	EST02356		
1055	EST02071	1152	EST02174	1239	EST02268	1327	EST02357		
1056	EST02072	1153	EST02175	1240	EST02269	1328	EST02358		
1057	EST02073	1154	EST02176	1241	EST02270	1329	EST02359		
1058	EST02074	1155	EST02177	1242	EST02271	1330	EST02360		
1059	EST02075	1156	EST02178	1244	EST02273	1333	EST02363		
1060	EST02076	1157	EST02180	1246	EST02275	1334	EST02364		
1061	EST02078	1158	EST02181	1247	EST02276	1335	EST02365		
1062	EST02079	1159	EST02182	1248	EST02277	1336	EST02366		
1063	EST02081	1160	EST02183	1249	EST02278	1337	EST02367		
1064	EST02082	1161	EST02184	1250	EST02279	1338	EST02368		
1065	EST02083	1162	EST02185	1251	EST02280	1339	EST02369		
1066	EST02084	1164	EST02188	1252	EST02281	1342	EST02372		
1067	EST02085	1165	EST02189	1253	EST02282	1343	EST02373		
1068	EST02086	1166	EST02190	1254	EST02283	1345	EST02375		
1070	EST02088	1167	EST02191	1255	EST02284	1346	EST02376		
1071	EST02089	1168	EST02193	1256	EST02285	1347	EST02377		
1072	EST02090	1169	EST02194	1257	EST02286	1349	EST02379		
1073	EST02091	1170	EST02195	1258	EST02287	1350	EST02380		
1074	EST02092	1171	EST02196	1259	EST02288	1351	EST02381		
1075	EST02093	1172	EST02197	1260	EST02289	1352	EST02382		
1076	EST02094	1173	EST02198	1261	EST02290	1353	EST02383		
1077	EST02096	1174	EST02199	1262	EST02291	1354	EST02384		
1078	EST02097	1175	EST02200	1263	EST02292	1355	EST02385		
1079	EST02098	1176	EST02201	1268	EST02297	1357	EST02387		
1080	EST02099	1177	EST02202	1269	EST02298	1358	EST02388		
1082	EST02101	1178	EST02203	1270	EST02299	1359	EST02390		
1084	EST02103	1179	EST02204	1271	EST02300	1360	EST02391		
1085	EST02104	1180	EST02205	1272	EST02301	1361	EST02392		
		1182	EST02207	1273	EST02302	1362	EST02393		

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1907	EST01022	2016	EST01110	2118	EST01194	2223	EST01742	2332	EST01794
1908	EST01023	2018	EST01111	2119	EST01195	2224	EST01277	2333	EST01357
1909	EST01024	2019	EST01112	2122	EST01197	2228	EST01280	2335	EST01359
1911	EST02694	2020	EST01113	2123	EST01713	2229	EST01281	2336	EST01360
1912	EST01025	2021	EST01114	2124	EST01198	2231	EST01746	2337	EST01361
1913	EST01646	2022	EST01115	2125	EST01199	2237	EST01288	2340	EST01802
1915	EST01027	2023	EST01116	2126	EST01200	2238	EST01289	2341	EST01364
1916	EST01028	2025	EST01118	2127	EST01201	2239	EST01290	2343	EST01366
1917	EST01029	2026	EST01119	2129	EST01203	2240	EST01291	2344	EST01367
1918	EST02695	2027	EST01120	2130	EST01204	2241	EST01747	2349	EST01372
1919	EST01030	2028	EST01121	2132	EST01206	2242	EST01292	2350	EST02708
1920	EST01031	2029	EST01682	2133	EST01207	2243	EST01293	2352	EST01374
1921	EST01647	2030	EST01122	2135	EST01209	2244	EST01294	2356	EST01377
1922	EST01032	2033	EST01684	2137	EST01211	2246	EST01295	2357	EST01378
1923	EST01033	2034	EST01124	2139	EST01716	2247	EST01296	2360	EST01381
1924	EST01034	2035	EST01125	2140	EST01212	2249	EST01298	2361	EST01382
1925	EST01035	2036	EST01126	2142	EST01214	2251	EST01300	2363	EST01384
1926	EST01036	2037	EST01686	2143	EST01215	2252	EST01750	2364	EST01385
1927	EST01037	2038	EST01127	2147	EST01219	2253	EST01301	2365	EST01386
1929	EST01039	2039	EST01128	2148	EST01220	2256	EST02718	2366	EST01387
1932	EST01042	2040	EST01129	2151	EST01223	2257	EST01303	2369	EST01811
1934	EST01043	2042	EST01688	2152	EST01224	2258	EST01754	2370	EST01390
1935	EST01044	2045	EST01133	2154	EST01226	2260	EST01305	2371	EST01391
1936	EST01045	2047	EST01135	2156	EST01718	2261	EST01755	2372	EST01392
1937	EST01652	2048	EST01136	2157	EST01719	2262	EST01306	2375	EST01815
1938	EST01654	2049	EST01689	2158	EST01228	2264	EST01308	2376	EST01395
1941	EST01047	2050	EST01137	2159	EST01229	2265	EST01309	2377	EST01396
1942	EST01048	2052	EST01139	2160	EST01230	2268	EST01311	2379	EST01398
1943	EST01049	2053	EST01140	2162	EST01232	2269	EST01312	2380	EST01399
1945	EST01051	2054	EST01141	2163	EST01233	2270	EST01313	2381	EST01400
1946	EST02696	2055	EST01690	2164	EST01234	2271	EST01314	2382	EST01401
1947	EST01052	2057	EST01143	2165	EST01720	2272	EST01762	2383	EST01402
1948	EST01053	2061	EST01147	2166	EST01236	2273	EST01315	2384	EST01403
1950	EST01055	2062	EST02701	2167	EST01237	2275	EST01316	2385	EST01816
1951	EST01056	2063	EST01148	2169	EST01722	2276	EST01317	2386	EST01404
1952	EST01057	2065	EST01691	2170	EST01239	2277	EST01318	2387	EST01405
1955	EST01662	2066	EST01692	2171	EST01240	2278	EST01319		
1957	EST01059	2067	EST01693	2172	EST01241	2279	EST01320		
1958	EST01060	2069	EST01150	2175	EST01243	2280	EST01763		
1959	EST01061	2070	EST01151	2177	EST01245	2284	EST01323		
1963	EST01063	2072	EST01152	2178	EST01726				
1964	EST01064	2074	EST01698	2179	EST01246				
1966	EST01065	2075	EST01153	2180	EST01247	2285	EST01768		
1968	EST01067	2076	EST02702	2181	EST01248	2287	EST01770		
1969	EST01068	2077	EST01154			2288	EST01324		
1970	EST01666	2078	EST01155			2290	EST01772		
1971	EST01069	2079	EST01156	2182	EST01249	2291	EST01773		
1972	EST01070	2080	EST01157	2183	EST01250	2292	EST01326		
1975	EST01073			2185	EST01252	2293	EST01327		
1976	EST01074			2186	EST01253	2294	EST01328		
1978	EST01076	2081	EST01158	2187	EST01727	2295	EST01329		
1979	EST01077	2082	EST01159	2188	EST01254	2296	EST01330		
		2083	EST01160	2190	EST01728	2298	EST01331		
		2084	EST01161	2191	EST01256	2299	EST01332		
		2085	EST01162	2193	EST01258	2301	EST01334		
		2086	EST01163	2194	EST01729	2304	EST01780		
		2087	EST01164	2195	EST01259	2305	EST01336		
		2088	EST01166	2197	EST01261	2306	EST01337		
		2091	EST01168	2198	EST01730	2310	EST01341		
		2093	EST01170	2199	EST01262	2311	EST01342		
		2095	EST01701	2200	EST01731	2312	EST01343		
		2096	EST01172	2201	EST01263	2313	EST01344		
		2097	EST01173	2202	EST01732	2315	EST01346		
		2098	EST01174	2205	EST01735	2316	EST01782		
		2099	EST01175	2206	EST01736	2317	EST01347		
		2103	EST01179	2208	EST01267	2318	EST01348		
		2104	EST01180	2209	EST02717	2319	EST01349		
		2107	EST01183	2210	EST01268	2321	EST01350		
		2108	EST01184	2211	EST01269	2322	EST01351		
		2109	EST01185	2213	EST01271	2323	EST01789		
		2110	EST01186	2215	EST01273	2325	EST01353		
		2111	EST01187	2218	EST01274	2327	EST01354		
		2112	EST01188	2219	EST01275	2328	EST01355		
		2113	EST01189	2220	EST01740	2329	EST01792		
		2114	EST01190	2221	EST01741	2330	EST01793		
		2115	EST01191	2222	EST01276	2331	EST01356		
1980	EST01078								
1981	EST01079								
1983	EST01081								
1984	EST01082								
1985	EST01083								
1986	EST01084								
1988	EST01085								
1989	EST01086								
1995	EST01092								
1996	EST01093								
1998	EST01095								
1999	EST01096								
2002	EST01099								
2003	EST01675								
2005	EST01100								
2006	EST01101								
2007	EST01102								
2009	EST01677								
2010	EST01104								
2011	EST01105								
2014	EST01108								
2015	EST01109								

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<u>SEQ ID#</u>	<u>EST#</u>
2389	EST01407
2391	EST01415
2392	EST01416
2395	EST01419
2397	EST01421
2401	EST01424
2403	EST01425
2404	EST01426
2406	EST02713
2409	EST00273

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EXAMPLE 10

Functional Groupings of ESTs and Corresponding Genes

5 By matching new human ESTs to known sequences from other
species, the apparent function of the gene corresponding to
the EST can be ascertained. The data generated in Example 3
and 4 have been used to categorize 127 of the ESTs of the
present invention, and their corresponding genes, into
predicted functional groups. (These 127 are ESTs with
10 database matches to sequences from other species for which a
function was known.) Two different grouping schemes have
been used.

The first scheme separates the sequences into three
broad categories: metabolic; regulatory; and structural.
These groupings are set out in Table 10.

15 The second grouping scheme separates the sequences into
13 specific categories: cell surface proteins; developmental
control; energy metabolism; kinases and phosphatases;
oncogenes; other metabolism-related polypeptides; peptidases
and peptidase inhibitors; receptors; structural and
20 cytoskeletal; signal transduction; transporters;
transcription, translation, and subcellular localization; and
transcription factors. These groupings are set out in Table
11.

Table 10: Three-Class Functional Groupings of ESTs

SEQ ID	EST#	Group	Putative Identification
1834	EST01620	M	AMP deaminase, brain
97	EST00289	M	Aconitase
691	EST00675	M	Alcohol dehydrogenase
2092	EST01700	M	Anion exchanger homolog AE3
396	EST01443	M	CDPdiacylglycerol-serine O-phosphatidyltransferase
1956	EST01663	M	Ca ²⁺ -transporting ATPase 2
1039	EST02055	M	Calcium channel
2192	EST01257	M	Diacylglycerol kinase, lymphocyte
1441	EST02477	M	Diamine acetyltransferase
2289	EST01325	M	Fatty acid synthase
310	EST00377	M	Fo ATPase beta subunit, mitochondrial
1667	EST00825	M	Gamma-aminobutyric acid transporter
1412	EST02446	M	Glutamate-aspartate carrier protein
1020	EST02034	M	Glutaminase
2326	EST01791	M	Inositol-1,4,5-trisphosphate 3-kinase
2173	EST01724	M	Lon protease
1427	EST02463	M	Long-chain-fatty-acid-CoA ligase
2226	EST01744	M	NAD(P) ⁺ transhydrogenase (B-specific)
1566	EST02609	M	Neutrophil oxidase factor
1681	EST01573	M	Nucleoside diphosphate kinase
2254	EST01751	M	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase
93	EST00287	M	Processing enhancing protein
2297	EST01775	M	Prohormone cleavage enzyme
9	EST00376	M	Prolyl endopeptidase
1654	EST01572	M	Protochlorophyllide reductase
38	EST00374	M	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	M	Ribosomal protein L18a
1856	EST01627	M	Ribosomal protein L1a
1974	EST01667	M	Ribosomal protein L3
301	EST00300	M	Ribosomal protein L30
22	EST00301	M	Ribosomal protein S10
2402	EST01826	M	Ribosomal protein S10
463	EST01459	M	Ribosomal protein YL10
2073	EST01697	M	Succinate dehydrogenase flavoprotein
2138	EST01715	M	Succinate dehydrogenase flavoprotein
1771	EST01601	M	Thiosulfate sulfurtransferase (rhodanese)
2121	EST01711	M	Valine-tRNA ligase
1726	EST01588	M	XPR2 alkaline extracellular protease
913	EST01913	M	Clathrin coat assembly protein AP50 homolog
1035	EST02051	M	J1 protein
969	EST01982	R	ADP-ribosylation factor 1
1126	EST02146	R	Calbindin D28
1910	EST01645	R	Calmodulin
485	EST01466	R	Calmodulin-dependent protein kinase, type II, beta
2302	EST01779	R	Discs-large tumor suppressor
188	EST00256	R	Enhancer of split
1229	EST02258	R	KUP protein
993	EST02007	R	Kinase 5 protein
2282	EST01764	R	Lamin B receptor
SEQ ID	EST#	Group	Putative Identification
161	EST00247	R	MARCKS (myristoylated alanine-rich protein kinase)
769	EST00734	R	MARCKS homolog
1386	EST02418	R	MARCKS homolog
227	EST00259	R	Notch/Xotch
952	EST01961	R	Notch/Xotch
1395	EST02429	R	Nuclear factor 1-like protein (NF1)
2353	EST01806	R	Prohibitin
1069	EST02087	R	Protein kinase C, zeta
1933	EST01650	R	Protein phosphatase 2A beta subunit

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202	EST00298	R	Protein-tyrosine phosphatase LRP
1478	EST02515	R	Rab5
1408	EST02442	R	Seven in absentia
300	EST00232	R	Transforming protein (dbl)
1147	EST02169	R	Tyrosine kinase
1348	EST02378	R	cAMP-dependent protein kinase inhibitor
1931	EST01041	R	cAMP-regulated phosphoprotein
1413	EST02447	R	cAMP-specific phosphodiesterase
37	EST00038	R	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	R	rho H12/ ARH12
299	EST00249	R	smg p25A GDP dissociation inhibitor
189	EST00282	R	trkB
1332	EST02362	R	GA binding protein, beta subunit
1277	EST02306	R	Bib protein
43	EST00371	R	Maternal G10 protein
1704	EST01580	R	Myeloid differentiation primary response gene My
346	EST01828	R	Otd homeotic protein
187	EST00152	R	Wilm's tumor-related protein
249	EST00275	R	Zinc Finger Proteins
413	EST01446	R	Zinc Finger Proteins
469	EST01460	R	Zinc Finger Proteins
833	EST01560	R	Zinc Finger Proteins
1230	EST02259	R	Zinc finger proteins
1496	EST02534	R	Zinc finger proteins
2324	EST01352	R	Zinc Finger Proteins
208	EST00250	S	60K filarial antigen
2320	EST01784	S	60K filarial antigen
251	EST00370	S	Actin, other
2146	EST01218	S	Actin, other
248	EST00271	S	Actinin, alpha
891	EST01891	S	Actinin, alpha
1500	EST02538	S	Actinin, alpha
132	EST00110	S	Agrin
1852	EST01625	S	Agrin
1965	EST01664	S	Amyloid A4
2068	EST01694	S	Amyloid A4
2408	EST00244	S	Amyloid A4
1880	EST01634	S	Axonal glycoprotein TAG-1
2004	EST01676	S	Cofilin
650	EST00642	S	Dilute (myosin heavy chain)
2217	EST01738	S	Gelation factor ABP-280
1885	EST01639	S	Histocompatibility antigen modifier 1
77	EST00257	S	Kinesin
SEQ ID	EST#	Group	Putative Identification
78	EST00258	S	Kinesin
2245	EST01748	S	Kinesin
313	EST00276	S	Lysosomal membrane glycoprotein 1 (LAMP-1)
223	EST00368	S	Microtubule-associated protein 1B
824	EST01865	S	Microtubule-associated protein 1B
2032	EST01683	S	Microtubule-associated protein 1B
2017	EST01678	S	Milk fat globule membrane protein
1567	EST02610	S	Neural cell adhesion molecule L1
506	EST01471	S	Neuraxin
2368	EST01389	S	Radial spoke protein 3
951	EST01960	S	Spectrin, beta
2089	EST01699	S	Sperm membrane protein
653	EST01512	S	Tubulin, alpha
311	EST00270	S	Tubulin, beta
594	EST01490	S	Tubulin, beta
757	EST01542	S	Tubulin, beta
1245	EST02274	S	Tubulin, beta
1589	EST02634	S	Tubulin, beta
1468	EST02505	S	Matrin 3

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1371	EST02402	S	Talin
1701	EST00853	S	Unc-104

Group Key: M: Metabolic, R: Regulatory, S: Structural

Table 11: Thirteen-Class Functional Groupings of ESTs

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
208	EST00250	CS	60K filarial antigen
2320	EST01784	CS	60K filarial antigen
1965	EST01664	CS	Amyloid A4
2068	EST01694	CS	Amyloid A4
2408	EST00244	CS	Amyloid A4
1880	EST01634	CS	Axonal glycoprotein TAG-1
1885	EST01639	CS	Histocompatibility antigen modifier 1
313	EST00276	CS	Lysosomal membrane glycoprotein 1 (LAMP-1)
2017	EST01678	CS	Milk fat globule membrane protein
1567	EST02610	CS	Neural cell adhesion molecule L1
2368	EST01389	CS	Radial spoke protein 3
2089	EST01699	CS	Sperm membrane protein
1277	EST02306	DC	Bib protein
188	EST00256	DC	Enhancer of split
43	EST00371	DC	Maternal G10 protein
1704	EST01580	DC	Myeloid differentiation primary response gene MyD1
227	EST00259	DC	Notch/Xotch
952	EST01961	DC	Notch/Xotch
346	EST01828	DC	Orthodentical homeotic protein
1408	EST02442	DC	Seven in absentia
97	EST00289	EM	Aconitase
310	EST00377	EM	Fo ATPase beta subunit, mitochondrial
485	EST01466	KP	Calmodulin-dependent protein kinase, type II, beta
993	EST02007	KP	Kinase 5 protein
1069	EST02087	KP	Protein kinase C, zeta
1933	EST01650	KP	Protein phosphatase 2A beta subunit
202	EST00298	KP	Protein-tyrosine phosphatase LRP
1348	EST02378	KP	cAMP-dependent protein kinase inhibitor
2302	EST01779	OG	Discs-large tumor suppressor
2353	EST01806	OG	Prohibitin
1478	EST02515	OG	Rab5
300	EST00232	OG	Transforming protein (db1)
37	EST00038	OG	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	OG	rho H12/ ARH12
1834	EST01620	OM	AMP deaminase, brain
691	EST00675	OM	Alcohol dehydrogenase
396	EST01443	OM	CDPdiacylglycerol-serine O-phosphatidyltransferase
2192	EST01257	OM	Diacylglycerol kinase, lymphocyte
1441	EST02477	OM	Diamine acetyltransferase
2289	EST01325	OM	Fatty acid synthase
1020	EST02034	OM	Glutaminase
2326	EST01791	OM	Inositol-1,4,5-trisphosphate 3-kinase
1427	EST02463	OM	Long-chain-fatty-acid-CoA ligase
2226	EST01744	OM	NAD(P)+ transhydrogenase (B-specific)
1566	EST02609	OM	Neutrophil oxidase factor
1681	EST01573	OM	Nucleoside diphosphate kinase

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
2254	EST01751	OM	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase
1654	EST01572	OM	Protochlorophyllide reductase
2073	EST01697	OM	Succinate dehydrogenase flavoprotein
2138	EST01715	OM	Succinate dehydrogenase flavoprotein
1771	EST01601	OM	Thiosulfate sulfurtransferase (rhodanese)
2173	EST01724	PI	Lon protease
2297	EST01775	PI	Prohormone cleavage enzyme
9	EST00376	PI	Prolyl endopeptidase
1726	EST01588	PI	XPR2 alkaline extracellular protease
1147	EST02169	PP	Tyrosine kinase
2282	EST01764	RT	Lamin B receptor
189	EST00282	RT	trkB
251	EST00370	SC	Actin, other
2146	EST01218	SC	Actin, other
248	EST00271	SC	Actinin, alpha
891	EST01891	SC	Actinin, alpha
1500	EST02538	SC	Actinin, alpha
132	EST00110	SC	Agrin
1852	EST01625	SC	Agrin
2004	EST01676	SC	Cofilin
650	EST00642	SC	Dilute (myosin heavy chain)
2217	EST01738	SC	Gelation factor ABP-280
77	EST00257	SC	Kinesin
78	EST00258	SC	Kinesin
2245	EST01748	SC	Kinesin
1468	EST02505	SC	Matrin 3
223	EST00368	SC	Microtubule-associated protein 1B
824	EST01865	SC	Microtubule-associated protein 1B
2032	EST01683	SC	Microtubule-associated protein 1B
506	EST01471	SC	Neuraxin
951	EST01960	SC	Spectrin, beta
1371	EST02402	SC	Talin
653	EST01512	SC	Tubulin, alpha
311	EST00270	SC	Tubulin, beta
594	EST01490	SC	Tubulin, beta
757	EST01542	SC	Tubulin, beta
1245	EST02274	SC	Tubulin, beta
1589	EST02634	SC	Tubulin, beta
1701	EST00853	SC	Unc-104
969	EST01982	ST	ADP-ribosylation factor 1
1126	EST02146	ST	Calbindin D28
1910	EST01645	ST	Calmodulin
161	EST00247	ST	MARCKS (myristoylated alanine-rich protein kinase)
769	EST00734	ST	MARCKS homolog
1386	EST02418	ST	MARCKS homolog
1931	EST01041	ST	cAMP-regulated phosphoprotein
1413	EST02447	ST	cAMP-specific phosphodiesterase
299	EST00249	ST	smg p25A GDP dissociation inhibitor

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
2092	EST01700	TP	Anion exchanger homolog AE3
1956	EST01663	TP	Ca ²⁺ -transporting ATPase 2
1039	EST02055	TP	Calcium channel
1667	EST00825	TP	Gamma-aminobutyric acid transporter
1412	EST02446	TP	Glutamate-aspartate carrier protein
913	EST01913	TT	Clathrin coat assembly protein AP50 homolog
1035	EST02051	TT	J1 protein
93	EST00287	TT	Processing enhancing protein
38	EST00374	TT	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	TT	Ribosomal protein L18a
1856	EST01627	TT	Ribosomal protein L1a
1974	EST01667	TT	Ribosomal protein L3
301	EST00300	TT	Ribosomal protein L30
22	EST00301	TT	Ribosomal protein S10
2402	EST01826	TT	Ribosomal protein S10
463	EST01459	TT	Ribosomal protein YL10
2121	EST01711	TT	Valine-tRNA ligase
1332	EST02362	TX	GA binding protein, beta subunit
1229	EST02258	TX	KUP protein
1395	EST02429	TX	Nuclear factor 1-like protein (NF1)
187	EST00152	TX	Wilm's tumor-related protein
249	EST00275	TX	Zinc Finger Proteins
413	EST01446	TX	Zinc Finger Proteins
469	EST01460	TX	Zinc Finger Proteins
833	EST01560	TX	Zinc Finger Proteins
1230	EST02259	TX	Zinc finger proteins
1496	EST02534	TX	Zinc finger proteins
2324	EST01352	TX	Zinc Finger Proteins

Group Key: CS: Cell Surface, DC: Developmental Control, EM: Energy Metabolism, KP: Kinases and Phosphatases, OG: Oncogenes, OM: Other Metabolism, PI, Peptidases and Peptidase Inhibitors, RT: Receptors, SC: Structural and Cytoskeletal, ST: Signal Transduction, TP: Transporters, TT: Transcription, Translation, and Subcellular Localization, TX: Transcription Factors.

EXAMPLE 11

cDNA Libraries Generated From Specific Genomic DNA
by Exon Expression & Amplification

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Exon amplification was used to express potential exons from genomic DNA in a recombinant vector that contains some of the signals necessary for splicing. If an exon is present in the proper orientation in the vector, that exon will be spliced in a mammalian cell and will become part of the mRNA of that cell. The exon splice-product can be purified from other mRNA in the cell by conversion of the mRNA to cDNA and selective amplification of the recombinant splice-product cDNAs. Cosmid DNA from human chromosome 19q13.3 was digested with BamHI or BamHI/BglIII restriction enzymes. The fragments generated were collected and size specifically cloned into an expression vector (Buckler, et al. Proc. Nat'l. Acad. Sci. USA, 88:4005-4009 (1991)). After transfection by electroporation of these constructs into COS cells, RNA transcripts were generated using the SV40 early promoter and a polyadenylation signal derived from SV40 both present in the expression vector. When a fragment of genomic DNA contains an entire exon with flanking intron sequence in the sense orientation, the exon should be retained in the mature poly(A)+ cytoplasmic RNA. Therefore, the mRNA was used as template for cDNA synthesis using reverse transcriptase and vector-priming. Subsequently, the cDNAs were amplified by vector-priming using PCR. A fraction of this first PCR product was reamplified using internal vector-primers containing terminal cloning sites. These products were end-repaired with T4 DNA polymerase, digested with the appropriate restriction enzymes, gel purified and cloned into pBluescript vectors. The constructs were transfected into XL1-Blue competent cells and plated on LB/X-gal/IPTG/ampicillin plates. White colonies were selected and expanded to prepare DNA templates as described in Example 2.

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When multiple cosmids or YAC clones were used as the source DNA, a pool of specific expressed exons was obtained as a cDNA library. The EST/cDNAs sequenced from this specific library are disclosed herein as SEQ ID NOS: 2412-2417.

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EXAMPLE 12

PCR Amplification from Predicted Exons

10 Computational analyses can be applied to genomic DNA sequences to predict protein coding regions. The coding region prediction program CRM (E. Uberbacher and R. Mural, Proc. Natl. Acad. Sci. USA 88:11261-5 (1991)) finds open
15 reading frames and classifies them according to their probability of being coding regions. These regions are subsequently examined using the GM program (C. Fields and C. Soderlund, Comp. Applic. Biosci. 6: 263, 1990), which predicts intron-exon structure. PCR primers are then
20 designed to amplify the predicted exons and used to test human cDNA libraries (for example, fetal brain or placental libraries) for the presence of these putative exons using a PCR assay.

This strategy has been successfully applied in two large scale genomic sequencing projects, the Huntington's locus of
25 human chromosome 4p16.3 (McCombie, et al., submitted) and human chromosome locus 19q13.3 (Martin-Gallardo, et al., submitted). Sequences from eleven predicted exons from chromosome 4 were present in tested cDNA libraries, indicating that this region has at least two and probably
30 three expressed genes. In one case, the method resulted in an amplification product which spanned two predicted exons. (SEQ ID NO: 2411.) When sequenced, this PCR product indicated the presence of the two exons from which the
35 primers were initially chosen, as well as an intervening exon which was also predicted by the CRM program, but not the intervening genomic sequences. In a similar fashion, the presence of the two predicted genes in the chromosome 19

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sequence was confirmed by sequencing PCR products. SEQ ID NO 2410, includes a partial exon of one of these genes.

EXAMPLE 13

5 Complete Sequence of EST Clone Inserts

There are a number of methods known to those with skill in the art of molecular biology, to obtain sequence information from the cDNAs corresponding to the EST sequences. Procedures for these methods are provided in Basic Methods in Molecular Biology (David et al. *supra*). One way to acquire more information about the cDNA from which an EST was derived is to sequence the remainder of the cDNA clone. The complete sequence of the inserts of four EST clones (representing SEQ ID NOs 188, 189, 223, and 227) was determined using Exonuclease III deletions. Briefly, EST clones were digested with the restriction enzymes SalI and KpnI or PstI and BamHI (for deletions from the Forward primer and Reverse primer ends of the insert, respectively). The KpnI and PstI enzymes leave 3' sticky ends following digestion, which Exonuclease III is unable to bind. This results in unidirectional deletions into the cDNA insert leaving the vector sequence undisturbed. After addition of Exonuclease III to the Forward and Reverse deletion reactions, aliquots of the reaction were removed at defined time intervals and the reaction was stopped to prevent further deletion. S1 nuclease and Klenow DNA polymerase were added to create blunt ended fragments suitable for ligation.

Samples for each time point was purified by electrophoresis through an agarose gel and religated. Two to four representative clones from each time point in each direction were sequenced to give between 200 and 400 base pairs of sequence data. Careful selection of deletion conditions and time points allow a deletion series of approximately 100-200 base pairs difference in length at each consecutive time point. Sequence fragments were reassembled into a redundant contiguous sequence using the INHERIT

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software from Applied Biosystems, Inc. (Foster City, CA). In this way, the complete insert from these four cDNA clones was sequenced on both strands to an average redundancy between three and four (each base was sequenced between three and four times, on average). Those complete insert sequences are disclosed herein as SEQ ID 2418, 2419, 2420, and 2421, corresponding to original ESTs with SEQ ID 223, 189, 227, and 188, respectively.

EXAMPLE 14

Determining Reading Frame, Orientation, Coding Regions: ESTs and Complete cDNA Sequences

Once the complete cDNA sequence has been determined in accordance with Example 13, the reading frame, orientation, and coding regions are determined by computer techniques. (The complete coding region is considered to be the largest open reading frame from a methionine to a stop codon.)

Specifically, the CRM program on the GRAIL server is used as explained in Example 9 to determine probable coding regions. This information is supplemented by location of start and stop codons. Where possible, the results of the CRM analysis are validated by comparison of the cDNA sequence to known sequences using database matching, in accordance with Examples 3 and 4. If a match of 50% (or even less) is found in any particular reading frame and orientation, this serves to verify corresponding CRM results. Alternatively, database matches can be used to determine reading frame and orientation without use of the CRM program. Of course, if the cDNA is derived from a directional library, the probable orientation is already known.

EXAMPLE 15

Preparation of PCR Primers and Amplification of DNA

The EST sequences and the corresponding cDNA sequences and genomic sequences may be used, in accordance with the

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present invention, to prepare PCR primers for a variety of applications. The PCR primers are preferably at least 15 bases, and more preferably at least 18 bases in length. The procedure of Example 5 is repeated using the desired EST, or using the corresponding cDNA or genomic DNA sequence from Example 13. It is preferred that the primer pairs have approximately the same G/C ratio, so that melting temperatures are approximately the same. When screening cDNA, introns are of no concern; however, when screening genomic DNA, primers should be selected to avoid reading across introns, which usually are too large to amplify. The PCR primers and amplified DNA of this Example find use in the Examples that follow.

EXAMPLE 16

Forensic Matching by DNA Sequencing

In one exemplary method, DNA samples are isolated from forensic specimens of, for example, hair, semen, blood or skin cells by conventional methods. A panel of PCR primers derived from a number of the sequences of Example 1, 2, 11, 12 and/or 13 is then utilized in accordance with Example 12 to obtain DNA of approximately 100-200 bases in length from the forensic specimen. Corresponding sequences are obtained from a suspect. Each of these identification DNAs is then sequenced, and a simple database comparison determines the differences, if any, between the sequences from the suspect and those from the sample. Statistically significant differences between the suspect's DNA sequences and those from the sample conclusively prove a lack of identity. This lack of identity can be proven, for example, with only one sequence. Identity, on the other hand, should be demonstrated with a large number of sequences, all matching. Preferably, a minimum of 50 statistically identical sequences

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of 100 bases in length are used to prove identity between the suspect and the sample.

EXAMPLE 17

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Positive Identification by DNA Sequencing

10 The technique outlined in the previous example may also be used on a larger scale to provide a unique fingerprint-type identification of any individual. In this technique, primers are prepared from a large number of sequences from Examples 1, 2, 11, 12 and/or 13. Preferably, 20 to 50 different primers are used. These primers are used to obtain a corresponding number of PCR-generated DNA segments from the individual in question in accordance with Example 15. Each of these DNA segments is sequenced, using the methods set forth in Example 1. The database of sequences generated through this procedure uniquely identifies the individual from whom the sequences were obtained. The same panel of primers may then be used at any later time to absolutely correlate tissue or other biological specimen with that individual.

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EXAMPLE 18

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Southern Blot Forensic Identification

30 The procedure of Example 17 is repeated to obtain a panel of from 10 to 2000 amplified sequences from an individual and a specimen. This PCR-generated DNA is then digested with one or a combination of, preferably, four base specific restriction enzymes. Such enzymes are commercially available and known to those of skill in the art. After digestion, the resultant gene fragments are size separated in multiple duplicate wells on an agarose gel and transferred to nitrocellulose using Southern blotting techniques well known to those with skill in the art. For a review of Southern

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blotting see Davis et al. (Basic Methods in Molecular Biology, 1986, Elsevier Press. pp 62-65).

5 A panel of ESTs or complete cDNA sequences from Examples 1, 2, and/or 13, or fragments thereof of at least 15 bases, are radioactively or colorimetrically labeled using end-labeled oligonucleotides derived from the ESTs, nick translated sequences or the like using methods known in the art and hybridized to the Southern blot using techniques known in the art (Davis et al., supra). Preferably, at least 10 5 to 10 of these labeled probes are used, and more preferably at least about 20 or 30 are used to provide a unique pattern. The resultant bands appearing from the hybridization of a large sample of ESTs will be a unique identifier. Since the restriction enzyme cleavage will be different for every individual, the band pattern on the Southern blot will also 15 be unique. Increasing the number of EST probes will provide a statistically higher level of confidence in the identification since there will be an increased number of sets of bands used for identification.

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EXAMPLE 19

Dot Blot Identification Procedure

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Another technique for identifying individuals using the sequences disclosed herein utilizes a dot blot hybridization technique.

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Genomic DNA is isolated from nuclei of subject to be identified. Oligonucleotide probes of approximately 30 bp in length were synthesized that correspond to sequences from the ESTs. The probes are used to hybridize to the genomic DNA through conditions known to those in the art. The oligonucleotides are end labelled with P^{32} using polynucleotide kinase (Pharmacia). Dot Blots are created by 35 spotting about 50 ng cDNA of at least 10, preferably at least 50 sequences corresponding to a variety of the Sequence ID

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5 NOS provided in Table 7 onto nitrocellulose or the like using
a vacuum dot blot manifold (BioRad, Richmond California).
The nitrocellulose filter containing the EST clone sequences
is baked or UV linked to the filter, prehybridized and
10 hybridized with labeled probe using techniques known in the
art (Davis et al. supra). The ^{32}P labeled DNA fragments are
sequentially hybridized with successively stringent
conditions to detect minimal differences between the 30 bp
sequence and the DNA. Tetramethylammonium chloride is useful
15 for identifying clones containing small numbers of nucleotide
mismatches (Wood et al., Proc. Natl. Acad. Sci. USA
82(6):1585-1588 (1985) which is hereby incorporated by
reference. A unique pattern of dots distinguishes one
individual from another individuals.

EXAMPLE 20

Alternative "Fingerprint" Identification Technique

20 EST sequences and the corresponding complete cDNA
sequences can be used to create a unique fingerprint for an
individual. Thus pools of EST sequences can be used in
forensics, paternity suits or the like to differentiate one
individual from another.

25 Entire EST sequences can be used; similarly
oligonucleotides can be prepared from EST sequences. In this
example, 20-mer oligonucleotides are prepared from 200 EST
sequences using commercially available oligonucleotide
services such as Oligos Etc., Wilsonville, OR. Patient cell
30 samples are processed for DNA using techniques well known to
those with skill in the art. The nucleic acid is digested
with restriction enzymes EcoRI and XbaI. Following
digestion, samples are applied to wells for electrophoresis.
The procedure, as known in the art, may be modified to
35 accommodate polyacrylamide electrophoresis, however in this
example, samples containing 5 ug of DNA are loaded into wells

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and separated on 0.8% agarose gels. The gels are transferred using Southern blotting techniques onto nitrocellulose.

10 ng of each of the oligos are pooled and end-labeled with P^{32} . The nitrocellulose is prehybridized with blocking solution and hybridized with the labeled probes. Following hybridization and washing, the nitrocellulose filter is exposed to X-Omat AR X-ray film. The resulting hybridization pattern will be unique for each individual.

It is additionally contemplated within this example that the representative number of EST sequences can be varied for additional accuracy or clarity.

EXAMPLE 21

Identification of genes associated with hereditary diseases

This example illustrates an approach useful for the association of EST sequences with particular phenotypic characteristics. In this example, a particular EST is used as a test probe to associate that EST with a particular phenotypic characteristic.

An EST clone corresponding to EST01643, (SEQ ID NO 1894) maps to a gene rich region of chromosome 6. EST clone HHCMH89, from which EST01643 was derived, was mapped to chromosome 6p21 by Dr. Julie Korenberg of UCLA/Cedar Sinai Hospital using FISH. A search of Mendelian Inheritance in Man (supra) revealed 6p21 to be a very gene rich region containing several known genes and several diseases for which genes have not been identified. The cDNA encoded by EST clone HHCMH89 thus becomes an immediate candidate for each of these genetic diseases.

Cells from patients with these diseases are isolated and expanded in culture. PCR primers from the EST sequences are used to screen genomic DNA and RNA or cDNA from the patients. ESTs that are not amplified in the patients can be positively associated with a particular disease by further analysis.

EXAMPLE 22

Identification of a gene associated with
Angelman's disease

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Angelman's disease (AD) is characterized by deletions on the long arm of chromosome 15 (15q11q13) (Williams et al. Am. J. Med. Genet. 32:339-345 (1989) hereby incorporated by reference). The symptoms of the disease include developmental delay, seizures, inappropriate laughter and ataxic movements. These symptoms suggest that the disorder is a neurologic deficiency. This prophetic example illustrates how ESTs, preferably obtained from a cDNA library from human brain, may be used in identifying the defective gene or genes associated with Angelman's Disease. (The example is based on analogous work with genomic DNA, rather than cDNA and ESTs, in identifying the genetic defect associated with Angelman's Disease.) This example also illustrates how EST sequences may generally be used for identifying gene sequences associated with an inherited disease that is mapped to a chromosome location.

ESTs are screened using techniques described in Example 5 and Example 7 to identify those ESTs that localize to the long arm of chromosome 15 and preferably localize to chromosome 15 bands 15q11q13 from normal patients. ESTs that bind to the long arm of chromosome 15 are hybridized to chromosome 15 from AD patients. These studies are preferably performed using either fluorescence in situ hybridization or using somatic cell hybrids that contain fragments from the long arm of chromosome 15 from AD patients. Those chromosome 15-specific ESTs that do not map to chromosome 15 from AD patients are useful as markers for Angelman's Disease and can be incorporated into diagnostics for genetic screening. These ESTs are associated with chromosome deletions present in Angelman's disease. Identification of the gene associated with these AD negative ESTs and an analysis of the polypeptides encoded by the genes

from normal patients is essential for providing gene or other therapies for AD patients.

Genetic diseases are not always accompanied by gene deletions. Therefore, it is also important to use the ESTs that bind to bands 15q11q13 from AD patients as tools to identify the polymorphisms present within the disease population. Restriction fragment length polymorphism (RFLP) analysis can be performed on patient cells from AD disease or from somatic cell hybrids created using the long arm of chromosome 15. For a review of RFLP techniques see Donis-Keller et al. (Cell 51:319-337 (1987) hereby incorporated by reference). DNA is isolated from the somatic cell lines or from cells from AD patients. The DNA is digested with one or more restriction enzymes according to techniques of Donis-Keller et al. The resulting fragments are separated by gel electrophoresis, denatured, transferred to nitrocellulose and hybridized with the selected radio-labeled ESTs that localize to the region of interest. The autoradiographic pattern is compared both to a number of AD patients and to normal patients. Common patterns of EST hybridization in AD patients that are not present in normal patients indicates that the genes associated with these ESTs are candidate genes affected by AD.

cDNA libraries are prepared from the somatic cell hybrids from AD patients. Libraries are prepared using Lambda Zap II Library Kits (Stratagene, La Jolla, California) or other commercially available library kits. The ESTs of interest are used as probes to identify those bacterial colonies carrying genes corresponding to the EST probes. Positive clones are sequenced and the sequences are compared to homologous gene sequences derived from normal patients.

Alterations, including deletions and substitutions, within gene sequences, associated with bands 15q11q13, are thus positively identified and associated with AD disease. Wagstaff et al. were able to identify deletions and substitutions in sequences encoding the GABA_A receptor

protein subunit from patients with Angelman's disease (*Am. J. Hum. Genet.* 49:330-337, (1991)). It is likely that other genes will additionally be associated with the disease.

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EXAMPLE 23**Preparation and Use of Antisense Oligonucleotides**

10 Antisense RNA molecules are known to be useful for regulating translation within the cell. Antisense RNA molecules can be produced from EST sequences or from the corresponding gene sequences. These antisense molecules can be used as diagnostic probes to determine whether or not a particular gene is expressed in a cell. Similarly, the
15 antisense molecules can be used as a therapeutic to regulate gene expression once the EST is associated with a particular disease (see Example 22).

The antisense molecules are obtained from a nucleotide sequence by reversing the orientation of the coding region with regard to the promoter. Thus, the antisense RNA is
20 complementary to the corresponding mRNA. For a review of antisense design see Green et al., *Ann. Rev. Biochem.* 55:569-597 (1986), which is hereby incorporated by reference. The antisense sequences can contain modified sugar phosphate
25 backbones to increase stability and make them less sensitive to RNase activity. Examples of the modifications are described by Rossi et al., *Pharmacol. Ther.* 50(2):245-254, (1991).

30 Antisense molecules are introduced into cells that express the gene corresponding to the EST of interest in culture. In a preferred application of this invention, the polypeptide encoded by the gene is first identified, so that the effectiveness of antisense inhibition on translation can be monitored using techniques that include but are not
35 limited to antibody-mediated tests such as RIAs and ELISA, functional assays, or radiolabelling. The antisense molecule is introduced into the cells by diffusion or by transfection

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procedures known in the art. The molecules are introduced onto cell samples at a number of different concentrations preferably between $1 \times 10^{-10} \text{M}$ to $1 \times 10^{-4} \text{M}$. Once the minimum concentration that can adequately control translation is identified, the optimized dose is translated into a dosage suitable for use in vivo. For example, an inhibiting concentration in culture of 1×10^{-7} translates into a dose of approximately 0.6 mg/kg bodyweight. Levels of oligonucleotide approaching 100 mg/kg bodyweight or higher may be possible after testing the toxicity of the oligonucleotide in laboratory animals.

The antisense can be introduced into the body as a bare or naked oligonucleotide, oligonucleotide encapsulated in lipid, oligonucleotide sequence encapsidated by viral protein, or as oligonucleotide contained in an expression vector such as those described in Example 25. The antisense oligonucleotide is preferably introduced into the vertebrate by injection. It is additionally contemplated that cells from the vertebrate are removed, treated with the antisense oligonucleotide, and reintroduced into the vertebrate. It is further contemplated that the antisense oligonucleotide sequence is incorporated into a ribozyme sequence to enable the antisense to bind and cleave its target. For technical applications of ribozyme and antisense oligonucleotides see Rossi et al.

EXAMPLE 24

Preparation and use of Triple Helix Probes

Triple helix oligonucleotides are used to inhibit transcription from a genome. They are particularly useful for studying alterations in cell activity as it is associated with a particular gene. The EST sequences or complete sequences of the present invention or, more preferably, a portion of those sequences, can be used to inhibit gene

expression in individuals having diseases associated with a particular gene. Similarly, a portion of the EST or corresponding gene sequence can be used to study the effect of inhibiting transcription of a particular gene within a cell. Traditionally, homopurine sequences were considered the most useful. However, homopyrimidine sequences can also inhibit gene expression. Thus, both types of sequences from either the EST or from the gene corresponding to the EST are contemplated within the scope of this invention. Homopyrimidine oligonucleotides bind to the major groove at homopurine:homopyrimidine sequences. As an example, 10-mer to 20-mer homopyrimidine sequences from the ESTs can be used to inhibit expression from homopurine sequences. SEQ ID NOs such as 282, 888, 719, 670, 994, 240, 873 and 761 contain homopyrimidine 15-mers. Moreover the natural (beta) anomers of the oligonucleotide units can be replaced with alpha anomers to render the oligonucleotide more resistant to nucleases. Further, an intercalating agent such as ethidium bromide, or the like, can be attached to the 3' end of the alpha oligonucleotide to stabilize the triple helix. For information on the generation of oligonucleotides suitable for triple helix formation see Griffin et al. (*Science* 245:967-971 (1989)), which is hereby incorporated by this reference).

The oligonucleotides may be prepared on an oligonucleotide synthesizer or they may be purchased commercially from a company specializing in custom oligonucleotide synthesis. The sequences are introduced into cells in culture using techniques known in the art that include but are not limited to calcium phosphate precipitation, DEAE-Dextran, electroporation, liposome-mediated transfection or native uptake. Treated cells are monitored for altered cell function. These cell functions are predicted based upon the homologies of the gene, corresponding to the EST from which the oligonucleotide was derived, with known genes sequences that have been associated

with a particular function. The cell functions can also be predicted based on the presence of abnormal physiologies within cells derived from individuals with a particular inherited disease, particularly when the EST is associated with the disease using techniques described in Example 22.

EXAMPLE 25

Gene expression from DNA Sequences Corresponding to ESTs

A gene sequence of the present invention coding for all or part of a human gene product is introduced into an expression vector using conventional technology. (Techniques to transfer cloned sequences into expression vectors that direct protein translation in mammalian, yeast, insect or bacterial expression systems are well known in the art.) Commercially available vectors and expression systems are available from a variety of suppliers including Stratagene (La Jolla, California), Promega (Madison, Wisconsin), and Invitrogen (San Diego, California). If desired, to enhance expression and facilitate proper protein folding, the codon context and codon pairing of the sequence may be optimized for the particular expression organism, as explained by Hatfield, et al., U.S. Patent No. 5,082,767, incorporated herein by this reference.

The following is provided as one exemplary method to generate polypeptide from cloned cDNA sequences. The cDNA from the EST of interest is sequenced to identify the methionine initiation codon for the gene and the poly A sequence. If the cDNA lacks a poly A sequence, this sequence can be added to the construct by, for example, splicing out the Poly A sequence from pSG5 (Stratagene) using BglI and SalI restriction endonuclease enzymes and incorporating it into the mammalian expression vector pXT1 (Stratagene). pXT1 contains the LTRs and a portion of the gag gene from Moloney Murine Leukemia Virus. The position of the LTRs in the construct allow efficient stable transfection. The vector

includes the Herpes Simplex Thymidine Kinase promoter and the selectable neomycin gene. The cDNA is obtained by PCR from the bacterial vector using oligonucleotide primers complementary to the cDNA and containing restriction endonuclease sequences for Pst I incorporated into the 5' primer and BglII at the 5' end of the corresponding cDNA 3' primer, taking care to ensure that the cDNA is positioned inframe with the poly A sequence. The purified fragment obtained from the resulting PCR reaction is digested with PstI, blunt ended with an exonuclease, digested with Bgl II, purified and ligated to pXT1, now containing a poly A sequence and digested BglII.

The ligated product is transfected into mouse NIH 3T3 cells using Lipofectin (Life Technologies, Inc., Grand Island, New York) under conditions outlined in the product specification. Positive transfectants are selected after growing the transfected cells in 600ug/ml G418 (Sigma, St. Louis, Missouri). The protein is preferably released into the supernatant. However if the protein has membrane binding domains, the protein may additionally be retained within the cell or expression may be restricted to the cell surface.

Since it may be necessary to purify and locate the transfected product, synthetic 15-mer peptides synthesized from the predicted cDNA sequence are injected into mice to generate antibody to the polypeptide encoded by the cDNA.

If antibody production is not possible, the cDNA sequence is additionally incorporated into eukaryotic expression vectors and expressed as a chimeric with, for example, β -globin. Antibody to β -globin is used to purify the chimeric. Corresponding protease cleavage sites engineered between the β -globin gene and the cDNA are then used to separate the two polypeptide fragments from one another after translation. One useful expression vector for generating β -globin chimerics is pSG5 (Stratagene). This vector encodes rabbit β -globin. Intron II of the rabbit β -globin gene facilitates splicing of the expressed transcript,

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and the polyadenylation signal incorporated into the construct increases the level of expression. These techniques as described are well known to those skilled in the art of molecular biology. Standard methods are published in methods texts such as Davis et al. and many of the methods are available from the technical assistance representatives from Stratagene, Life Technologies, Inc., or Promega. Polypeptide may additionally be produced from either construct using in vitro translation systems such as In vitro ExpressTM Translation Kit (Stratagene).

Example 26

Production of an Antibody to a Human Protein

Substantially pure protein or polypeptide is isolated from the transfected or transformed cells as described in Example 25. Concentration of protein in the final preparation is adjusted, for example, by concentration on an Amicon filter device, to the level of a few micrograms/ml. Monoclonal or polyclonal antibody to the protein can then be prepared as follows:

A. Monoclonal Antibody Production by Hybridoma Fusion

Monoclonal antibody to epitopes of any of the peptides identified and isolated as described can be prepared from murine hybridomas according to the classical method of Kohler, G. and Milstein, C., *Nature* 256:495 (1975) or derivative methods thereof. Briefly, a mouse is repetitively inoculated with a few micrograms of the selected protein over a period of a few weeks. The mouse is then sacrificed, and the antibody producing cells of the spleen isolated. The spleen cells are fused by means of polyethylene glycol with mouse myeloma cells, and the excess unfused cells destroyed by growth of the system on selective media comprising aminopterin (HAT media). The successfully fused cells are diluted and aliquots of the dilution placed in wells of a

microtiter plate where growth of the culture is continued. Antibody-producing clones are identified by detection of antibody in the supernatant fluid of the wells by immunoassay procedures, such as Elisa, as originally described by Engvall, E., *Meth. Enzymol.* 70:419 (1980), and derivative methods thereof. Selected positive clones can be expanded and their monoclonal antibody product harvested for use. Detailed procedures for monoclonal antibody production are described in Davis, L. et al. **Basic Methods in Molecular Biology** Elsevier, New York. Section 21-2.

B. Polyclonal Antibody Production by Immunization

Polyclonal antiserum containing antibodies to heterogenous epitopes of a single protein can be prepared by immunizing suitable animals with the expressed protein described above, which can be unmodified or modified to enhance immunogenicity. Effective polyclonal antibody production is affected by many factors related both to the antigen and the host species. For example, small molecules tend to be less immunogenic than other and may require the use of carriers and adjuvant. Also, host animals vary in response to site of inoculations and dose, with both inadequate or excessive doses of antigen resulting in low titer antisera. Small doses (ng level) of antigen administered at multiple intradermal sites appears to be most reliable. An effective immunization protocol for rabbits can be found in Vaitukaitis, J. et al. *J. Clin. Endocrinol. Metab.* 33:988-991 (1971).

Booster injections can be given at regular intervals, and antiserum harvested when antibody titer thereof, as determined semi-quantitatively, for example, by double immunodiffusion in agar against known concentrations of the antigen, begins to fall. See, for example, Ouchterlony, O. et al., Chap. 19 in: **Handbook of Experimental Immunology** D. Wier (ed) Blackwell (1973). Plateau concentration of antibody is usually in the range of 0.1 to 0.2 mg/ml of serum (about 12 μ M). Affinity of the antisera for the antigen is

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determined by preparing competitive binding curves, as described, for example, by Fisher, D., Chap. 42 in: **Manual of Clinical Immunology**, 2d Ed. (Rose and Friedman, eds.) Amer. Soc. For Microbiol., Washington, D.C. (1980).

5 Antibody preparations prepared according to either protocol are useful in quantitative immunoassays which determine concentrations of antigen-bearing substances in biological samples; they are also used semi-quantitatively or qualitatively to identify the presence of antigen in a
10 biological sample.

EXAMPLE 27

Identification of Tissue Types or Cell Species by Means of Labeled Tissue Specific Antibodies

15 Identification of specific tissues is accomplished by the visualization of tissue specific antigens by means of antibody preparations according to Example 26 which are conjugated, directly or indirectly to a detectable marker.
20 Selected labeled antibody species bind to their specific antigen binding partner in tissue sections, cell suspensions, or in extracts of soluble proteins from a tissue sample to provide a pattern for qualitative or semi-qualitative interpretation.

25 Antisera for these procedures must have a potency exceeding that of the native preparation, and for that reason, antibodies are concentrated to a mg/ml level by isolation of the gamma globulin fraction, for example, by ion-exchange chromatography or by ammonium sulfate
30 fractionation. Also, to provide the most specific antisera, unwanted antibodies, for example to common proteins, must be removed from the gamma globulin fraction, for example by means of insoluble immunoabsorbents, before the antibodies are labeled with the marker. Either monoclonal or
35 heterologous antisera is suitable for either procedure.

A. Immunohistochemical Techniques

Purified, high-titer antibodies, prepared as described above, are conjugated to a detectable marker, as described, for example, by Fudenberg, H., Chap. 26 in: **Basic & Clinical Immunology**, 3rd Ed. Lange, Los Altos, California (1980) or Rose, N. et al., Chap. 12 in: **Methods in Immunodiagnosis**, 2d Ed. John Wiley & Sons, New York (1980).

A fluorescent marker, either fluorescein or rhodamine, is preferred, but antibodies can also be labeled with an enzyme that supports a color producing reaction with a substrate, such as horseradish peroxidase. Markers can be added to tissue-bound antibody in a second step, as described below. Alternatively, the specific antitissue antibodies can be labeled with ferritin or other electron dense particles, and localization of the ferritin coupled antigen-antibody complexes achieved by means of an electron microscope. In yet another approach, the antibodies are radiolabeled, with, for example ^{125}I , and detected by overlaying the antibody treated preparation with photographic emulsion.

Preparations to carry out the procedures can comprise monoclonal or polyclonal antibodies to a single gene copy or protein, identified as specific to a tissue type, for example, brain tissue, or antibody preparations to several antigenically distinct tissue specific antigens can be used in panels, independently or in mixtures, as required.

Tissue sections and cell suspensions are prepared for immunohistochemical examination according to common histological techniques. Multiple cryostat sections (about 4 μm , unfixed) of the unknown tissue and known control, are mounted and each slide covered with different dilutions of the antibody preparation. Sections of known and unknown tissues should also be treated with preparations to provide a positive control, a negative control, for example, pre-immune sera, and a control for non-specific staining, for example, buffer.

Treated sections are incubated in a humid chamber for 30 min at room temperature, rinsed, then washed in buffer for 30-45 min. Excess fluid is blotted away, and the marker developed.

5 If the tissue specific antibody was not labeled in the first incubation, it can be labeled at this time in a second antibody-antibody reaction, for example, by adding fluorescein- or enzyme-conjugated antibody against the immunoglobulin class of the antiserum-producing species, for
10 example, fluorescein labeled antibody to mouse IgG. Such labeled sera are commercially available.

The antigen found in the tissues by the above procedure can be quantified by measuring the intensity of color or fluorescence on the tissue section, and calibrating that
15 signal using appropriate standards.

B. Identification of Tissue Specific Soluble Proteins

The visualization of tissue specific proteins and identification of unknown tissues from that procedure is carried out using the labeled antibody reagents and detection
20 strategy as described for immunohistochemistry; however the sample is prepared according to an electrophoretic technique to distribute the proteins extracted from the tissue in an orderly array on the basis of molecular weight for detection.

A tissue sample is homogenized using a Virtis apparatus; cell suspensions are disrupted by Dounce homogenization or
25 osmotic lysis, using detergents in either case as required to disrupt cell membranes, as is the practice in the art. Insoluble cell components such as nuclei, microsomes, and membrane fragments are removed by ultracentrifugation, and
30 the soluble protein-containing fraction concentrated if necessary and reserved for analysis.

A sample of the soluble protein solution is resolved into individual protein species by conventional SDS polyacrylamide electrophoresis as described, for example, by
35 Davis, L. et al., Section 19-2 in: **Basic Methods in Molecular Biology** (P. Leder, ed), Elsevier, New York (1986), using a

range of amounts of polyacrylamide in a set of gels to resolve the entire molecular weight range of proteins to be detected in the sample. A size marker is run in parallel for purposes of estimating molecular weights of the constituent proteins. Sample size for analysis is a convenient volume of from 5-50 μ l, and containing from about 1 to 100 μ g protein. An aliquot of each of the resolved proteins is transferred by blotting to a nitrocellulose filter paper, a process that maintains the pattern of resolution. Multiple copies are prepared. The procedure, known as Western Blot Analysis, is well described in Davis, L. et al., (above) Section 19-3. One set of nitrocellulose blots is stained with Coomassie Blue dye to visualize the entire set of proteins for comparison with the antibody bound proteins. The remaining nitrocellulose filters are then incubated with a solution of one or more specific antisera to tissue specific proteins prepared as described in Example 26. In this procedure, as in procedure A above, appropriate positive and negative sample and reagent controls are run.

In either procedure A or B, a detectable label can be attached to the primary tissue antigen-primary antibody complex according to various strategies and permutations thereof. In a straightforward approach, the primary specific antibody can be labeled; alternatively, the unlabeled complex can be bound by a labeled secondary anti-IgG antibody. In other approaches, either the primary or secondary antibody is conjugated to a biotin molecule, which can, in a subsequent step, bind an avidin conjugated marker. According to yet another strategy, enzyme labeled or radioactive protein A, which has the property of binding to any IgG, is bound in a final step to either the primary or secondary antibody.

The visualization of tissue specific antigen binding at levels above those seen in control tissues to one or more tissue specific antibodies, prepared from the gene sequences identified from EST sequences, can identify tissues of unknown origin, for example, forensic samples, or

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differentiated tumor tissue that has metastasized to foreign bodily sites.

The entire contents of all references cited above are hereby incorporated by reference.

5 While the present invention has been described in some detail for purposes of clarity and understanding, one skilled in the art will appreciate that various changes in form and detail can be made without departing from the true scope of the invention.

10 VII. Correlation of EST and Clone Identifiers

The EST sequences of the present invention are identified herein by SEQ ID NO, and are identified in the GenBank database by a different number, are identified in the
15 inventors' lab (and upcoming publications) by EST number, and clones have been submitted to the American Type Culture Collection (Rockville, Maryland USA) under clone names. Table 12 cross references those different numbers for the ESTs from cDNA, SEQ ID NOS 1-2409.

20 Certain Sequence ID NOS are excluded from some claims based on their homology to known non-human sequences (See Table 2).

Table 12. SEQ ID NO Cross References

SEQ ID	EST#	Clone	GB#	SEQ ID	EST#	Clone	GB#	SEQ ID	EST#	Clone	GB#	SEQ ID	EST#	Clone	GB#	SEQ ID	EST#	Clone	GB#
1	EST00007	HFA01	M61959	64	EST00066	HCC13	M62010	128	EST00252	HCC57	M62191	129	EST00321	HCC18	M62011	130	EST00355	HCC60	M62254
2	EST00009	HFA05	M61953	65	EST00067	HCC18	M62011	129	EST00355	HCC60	M62254	131	EST00355	HCC60	M62254	131	EST00355	HCC60	M62254
3	EST00010	HFA07	M61961	66	EST00067	HCC18	M62011	130	EST00355	HCC60	M62254	132	EST00355	HCC60	M62254	132	EST00355	HCC60	M62254
4	EST00011	HFA08	M61962	67	EST00068	HCC22	M62012	131	EST00355	HCC60	M62254	133	EST00355	HCC60	M62254	133	EST00355	HCC60	M62254
5	EST00012	HFA10	M61963	68	EST00068	HCC22	M62012	132	EST00355	HCC60	M62254	134	EST00355	HCC60	M62254	134	EST00355	HCC60	M62254
6	EST00013	HFA11	M61964	69	EST00068	HCC22	M62012	133	EST00355	HCC60	M62254	135	EST00355	HCC60	M62254	135	EST00355	HCC60	M62254
7	EST00014	HFA11	M61965	70	EST00068	HCC22	M62012	134	EST00355	HCC60	M62254	136	EST00355	HCC60	M62254	136	EST00355	HCC60	M62254
8	EST00015	HFA26	M61966	71	EST00068	HCC22	M62012	135	EST00355	HCC60	M62254	137	EST00355	HCC60	M62254	137	EST00355	HCC60	M62254
9	EST00016	HFA23	M61967	72	EST00068	HCC22	M62012	136	EST00355	HCC60	M62254	138	EST00355	HCC60	M62254	138	EST00355	HCC60	M62254
10	EST00017	HFA23	M61968	73	EST00068	HCC22	M62012	137	EST00355	HCC60	M62254	139	EST00355	HCC60	M62254	139	EST00355	HCC60	M62254
11	EST00018	HFA36	M61969	74	EST00068	HCC22	M62012	138	EST00355	HCC60	M62254	140	EST00355	HCC60	M62254	140	EST00355	HCC60	M62254
12	EST00019	HFA36	M61970	75	EST00068	HCC22	M62012	139	EST00355	HCC60	M62254	141	EST00355	HCC60	M62254	141	EST00355	HCC60	M62254
13	EST00020	HFA66	M61971	76	EST00068	HCC22	M62012	140	EST00355	HCC60	M62254	142	EST00355	HCC60	M62254	142	EST00355	HCC60	M62254
14	EST00021	HFA66	M61972	77	EST00068	HCC22	M62012	141	EST00355	HCC60	M62254	143	EST00355	HCC60	M62254	143	EST00355	HCC60	M62254
15	EST00022	HFA71	M61973	78	EST00068	HCC22	M62012	142	EST00355	HCC60	M62254	144	EST00355	HCC60	M62254	144	EST00355	HCC60	M62254
16	EST00023	HFA71	M61974	79	EST00068	HCC22	M62012	143	EST00355	HCC60	M62254	145	EST00355	HCC60	M62254	145	EST00355	HCC60	M62254
17	EST00024	HFA84	M61975	80	EST00068	HCC22	M62012	144	EST00355	HCC60	M62254	146	EST00355	HCC60	M62254	146	EST00355	HCC60	M62254
18	EST00025	HFA84	M61976	81	EST00068	HCC22	M62012	145	EST00355	HCC60	M62254	147	EST00355	HCC60	M62254	147	EST00355	HCC60	M62254
19	EST00026	HFA84	M61977	82	EST00068	HCC22	M62012	146	EST00355	HCC60	M62254	148	EST00355	HCC60	M62254	148	EST00355	HCC60	M62254
20	EST00027	HFA84	M61978	83	EST00068	HCC22	M62012	147	EST00355	HCC60	M62254	149	EST00355	HCC60	M62254	149	EST00355	HCC60	M62254
21	EST00028	HFA84	M61979	84	EST00068	HCC22	M62012	148	EST00355	HCC60	M62254	150	EST00355	HCC60	M62254	150	EST00355	HCC60	M62254
22	EST00029	HFA84	M61980	85	EST00068	HCC22	M62012	149	EST00355	HCC60	M62254	151	EST00355	HCC60	M62254	151	EST00355	HCC60	M62254
23	EST00030	HFA84	M61981	86	EST00068	HCC22	M62012	150	EST00355	HCC60	M62254	152	EST00355	HCC60	M62254	152	EST00355	HCC60	M62254
24	EST00031	HFA84	M61982	87	EST00068	HCC22	M62012	151	EST00355	HCC60	M62254	153	EST00355	HCC60	M62254	153	EST00355	HCC60	M62254
25	EST00032	HFA84	M61983	88	EST00068	HCC22	M62012	152	EST00355	HCC60	M62254	154	EST00355	HCC60	M62254	154	EST00355	HCC60	M62254
26	EST00033	HFA84	M61984	89	EST00068	HCC22	M62012	153	EST00355	HCC60	M62254	155	EST00355	HCC60	M62254	155	EST00355	HCC60	M62254
27	EST00034	HFA84	M61985	90	EST00068	HCC22	M62012	154	EST00355	HCC60	M62254	156	EST00355	HCC60	M62254	156	EST00355	HCC60	M62254
28	EST00035	HFA84	M61986	91	EST00068	HCC22	M62012	155	EST00355	HCC60	M62254	157	EST00355	HCC60	M62254	157	EST00355	HCC60	M62254
29	EST00036	HFA84	M61987	92	EST00068	HCC22	M62012	156	EST00355	HCC60	M62254	158	EST00355	HCC60	M62254	158	EST00355	HCC60	M62254
30	EST00037	HFA84	M61988	93	EST00068	HCC22	M62012	157	EST00355	HCC60	M62254	159	EST00355	HCC60	M62254	159	EST00355	HCC60	M62254
31	EST00038	HFA84	M61989	94	EST00068	HCC22	M62012	158	EST00355	HCC60	M62254	160	EST00355	HCC60	M62254	160	EST00355	HCC60	M62254
32	EST00039	HFA84	M61990	95	EST00068	HCC22	M62012	159	EST00355	HCC60	M62254	161	EST00355	HCC60	M62254	161	EST00355	HCC60	M62254
33	EST00040	HFA84	M61991	96	EST00068	HCC22	M62012	160	EST00355	HCC60	M62254	162	EST00355	HCC60	M62254	162	EST00355	HCC60	M62254
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35	EST00042	HFA84	M61993	98	EST00068	HCC22	M62012	162	EST00355	HCC60	M62254	164	EST00355	HCC60	M62254	164	EST00355	HCC60	M62254
36	EST00043	HFA84	M61994	99	EST00068	HCC22	M62012	163	EST00355	HCC60	M62254	165	EST00355	HCC60	M62254	165	EST00355	HCC60	M62254
37	EST00044	HFA84	M61995	100	EST00068	HCC22	M62012	164	EST00355	HCC60	M62254	166	EST00355	HCC60	M62254	166	EST00355	HCC60	M62254
38	EST00045	HFA84	M61996	101	EST00068	HCC22	M62012	165	EST00355	HCC60	M62254	167	EST00355	HCC60	M62254	167	EST00355	HCC60	M62254
39	EST00046	HFA84	M61997	102	EST00068	HCC22	M62012	166	EST00355	HCC60	M62254	168	EST00355	HCC60	M62254	168	EST00355	HCC60	M62254
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41	EST00048	HFA84	M61999	104	EST00068	HCC22	M62012	168	EST00355	HCC60	M62254	170	EST00355	HCC60	M62254	170	EST00355	HCC60	M62254
42	EST00049	HFA84	M62000	105	EST00068	HCC22	M62012	169	EST00355	HCC60	M62254	171	EST00355	HCC60	M62254	171	EST00355	HCC60	M62254
43	EST00050	HFA84	M62001	106	EST00068	HCC22	M62012	170	EST00355	HCC60	M62254	172	EST00355	HCC60	M62254	172	EST00355	HCC60	M62254
44	EST00051	HFA84	M62002	107	EST00068	HCC22	M62012	171	EST00355	HCC60	M62254	173	EST00355	HCC60	M62254	173	EST00355	HCC60	M62254
45	EST00052	HFA84	M62003	108	EST00068	HCC22	M62012	172	EST00355	HCC60	M62254	174	EST00355	HCC60	M62254	174	EST00355	HCC60	M62254
46	EST00053	HFA84	M62004	109	EST00068	HCC22	M62012	173	EST00355	HCC60	M62254	175	EST00355	HCC60	M62254	175	EST00355	HCC60	M62254
47	EST00054	HFA84	M62005	110	EST00068	HCC22	M62012	174	EST00355	HCC60	M62254	176	EST00355	HCC60	M62254	176	EST00355	HCC60	M62254
48	EST00055	HFA84	M62006	111	EST00068	HCC22	M62012	175	EST00355	HCC60	M62254	177	EST00355	HCC60	M62254	177	EST00355	HCC60	M62254
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50	EST00057	HFA84	M62008	113	EST00068	HCC22	M62012	177	EST00355	HCC60	M62254	179	EST00355	HCC60	M62254	179	EST00355	HCC60	M62254
51	EST00058	HFA84	M62009	114	EST00068	HCC22	M62012	178	EST00355	HCC60	M62254	180	EST00355	HCC60	M62254	180	EST00355	HCC60	M62254
52	EST00059	HFA84	M62010	115	EST00068	HCC22	M62012	179	EST00355	HCC60	M62254	181	EST00355	HCC60	M62254	181	EST00355	HCC60	M62254
53	EST00060	HFA84	M62011	116	EST00068	HCC22	M62012	180	EST00355	HCC60	M62254								
54	EST00061	HFA84	M62012	117	EST00068	HCC22	M62012												
55	EST00062	HFA84	M62013	118	EST00068	HCC22	M62012												
56	EST00063	HFA84	M62014	119	EST00068	HCC22	M62012												
57	EST00064	HFA84	M62015	120	EST00068	HCC22	M62012												
58	EST00065	HFA84	M62016	121	EST00068	HCC22	M62012												
59	EST00066	HFA84	M62017	122	EST00068	HCC22	M62012												
60	EST00067	HFA84	M62018	123	EST00068	HCC22	M62012												
61	EST00068	HFA84	M62019	124	EST00068	HCC22	M62012												
62	EST00069	HFA84	M62020	125	EST00068	HCC22	M62012												
63	EST00070	HFA84	M62021	126	EST00068	HCC22	M62012												
				127	EST00068	HCC22	M62012												

SUBSTITUTE SHEET

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SEQ ID	EST#	GB#	Clone
182	EST000329	M62261	HHC159
183	EST00148	M62089	HHC161
184	EST00149	M62090	HHC162
185	EST00150	M62091	HHC173
186	EST00151	M62092	HHC175
187	EST00152	M62093	HHC179
188	EST00256	M62195	HHC184
189	EST00282	M62199	HHC185
190	EST00153	M62094	HHC186
191	EST00154	M62095	HHC188
192	EST00155	M62096	HHC190
193	EST00156	M62097	HHC192
194	EST00157	M62098	HHC193
195	EST00158	M62099	HHC194
196	EST00160	M62100	HHCJ05
197	EST00161	M62101	HHCJ07
198	EST00162	M62102	HHCJ09
199	EST00277	M62214	HHCJ11
200	EST00163	M62104	HHCJ17
201	EST00298	M62236	HHCJ29
202	EST00164	M62105	HHCJ30
203	EST00235	M62173	HHCJ34
204	EST00165	M62106	HHCJ35
205	EST00166	M62107	HHCJ36
206	EST00167	M62108	HHCJ37
207	EST00250	M62189	HHCJ42
208	EST00331	M62262	HHCJ43
209	EST00168	M62109	HHCJ47
210	EST00332	M62263	HHCJ48
211	EST00169	M62110	HHCJ50
212	EST00170	M62111	HHCJ51
213	EST00171	M62112	HHCJ59
214	EST00172	M62113	HHCJ60
215	EST00173	M62114	HHCJ61
216	EST00175	M62116	HHCJ67
218	EST00176	M62117	HHCJ73
219	EST00372	M62208	HHCJ74
220	EST00359	M62286	HHCJ78
221	EST00177	M62118	HHCJ79
222	EST00368	M62284	HHCJ80
223	EST00356	M62284	HHCJ85
224	EST00178	M62119	HHCJ85
225	EST00333	M62120	HHCJ86
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376	EST01436	M78282	HFBA32	442	EST01455	M78772	HFBA26	509	EST01472	M78384	HFBA15	519	EST00541	M78393	HFBA26
377	EST00430	M78283	HFBA33	443	EST00482	M78334	HFBA27	510	EST00532	M78385	HFBA16	520	EST00542	M78394	HFBA27
378	EST00431	M78284	HFBA34	444	EST00483	M78335	HFBA28	511	EST00533	M78386	HFBA17	521	EST01474	M78395	HFBA28
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56	EST00576	M78428	HFBCB94	632	EST00626	M78478	HFBCB90	698	EST00681	M78533	HFBCD89	754	EST00710	M78562	HFBCB67
56	EST00577	M78429	HFBCB95	633	EST00627	M78479	HFBCB91	699	EST00682	M78534	HFBCD90	755	EST00711	M78563	HFBCB68
56	EST00578	M78430	HFBCB96	634	EST00628	M78480	HFBCB92	700	EST00683	M78535	HFBCD91	756	EST00712	M78564	HFBCB69
56	EST00579	M78431	HFBCB97	635	EST00629	M78481	HFBCB93	701	EST00684	M78536	HFBCD92	757	EST00713	M78565	HFBCB70
56	EST00580	M78432	HFBCB98	636	EST00630	M78482	HFBCB94	702	EST00685	M78537	HFBCD93	758	EST00714	M78566	HFBCB71
57	EST00581	M78433	HFBCB99	637	EST00631	M78483	HFBCB95	703	EST00686	M78538	HFBCD94	759	EST00715	M78567	HFBCB72
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57	EST00585	M78437	HFBCB03	641	EST00635	M78487	HFBCB99	707	EST00690	M78542	HFBCD98	763	EST00719	M78571	HFBCB76
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59	EST01496	M77912	HFBCB25	663	EST00657	M78509	HFBCB21	729	EST00712	M78564	HFBCD20	785	EST00741	M78593	HFBCB98
59	EST01497	M77913	HFBCB26	664	EST00658	M78510	HFBCB22	730	EST00713	M78565	HFBCD21	786	EST00742	M78594	HFBCB99
59	EST01498	M77914	HFBCB27	665	EST00659	M78511	HFBCB23	731	EST00714	M78566	HFBCD22	787	EST00743	M78595	HFBCB00
59	EST01499	M77915	HFBCB28	666	EST00660	M78512	HFBCB24	732	EST00715	M78567	HFBCD23	788	EST00744	M78596	HFBCB01
59	EST01500	M77916	HFBCB29	667	EST00661	M78513	HFBCB25	733	EST00716	M78568	HFBCD24	789	EST00745	M78597	HFBCB02
59	EST01501	M77917	HFBCB30	668	EST00662	M78514	HFBCB26	734	EST00717	M78569	HFBCD25	790	EST00746	M78598	HFBCB03
59	EST01502	M77918	HFBCB31	669	EST00663	M78515	HFBCB27	735	EST00718	M78569	HFBCD26	791	EST00747	M78599	HFBCB04
59	EST01503	M77919	HFBCB32	670	EST00664	M78516	HFBCB28	736	EST00719	M78570	HFBCD27	792	EST00748	M78600	HFBCB05
59	EST01504	M77920	HFBCB33	671	EST00665	M78517	HFBCB29	737	EST00720	M78571	HFBCD28	793	EST00749	M78601	HFBCB06
59	EST01505	M77921	HFBCB34	672	EST00666	M78518	HFBCB30	738	EST00721	M78572	HFBCD29	794	EST00750	M78602	HFBCB07
59	EST01506	M77922	HFBCB35	673	EST00667	M78519	HFBCB31	739	EST00722	M78573	HFBCD30	795	EST00751	M78603	HFBCB08
59	EST01507	M77923	HFBCB36	674	EST00668	M78520	HFBCB32	740	EST00723	M78574	HFBCD31	796	EST00752	M78604	HFBCB09
59	EST01508	M77924	HFBCB37	675	EST00669	M78521	HFBCB33	741	EST00724	M78575	HFBCD32	797	EST00753	M78605	HFBCB10
59	EST01509	M77925	HFBCB38	676	EST00670	M78522	HFBCB34	742	EST00725	M78576	HFBCD33	798	EST00754	M78606	HFBCB11
59	EST01510	M77926	HFBCB39	677	EST00671	M78523	HFBCB35	743	EST00726	M78577	HFBCD34	799	EST00755	M78607	HFBCB12
59	EST01511	M77927	HFBCB40	678	EST00672	M78524	HFBCB36	744	EST00727	M78578	HFBCD35	800	EST00756	M78608	HFBCB13
59	EST01512	M77928	HFBCB41	679	EST00673	M78525	HFBCB37	745	EST00728	M78579	HFBCD36	801	EST00757	M78609	HFBCB14
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59	EST01515	M77931	HFBCB44	682	EST00676	M78528	HFBCB40	748	EST00731	M78582	HFBCD39	804	EST00760	M78612	HFBCB17
59	EST01516	M77932	HFBCB45	683	EST00677	M78529	HFBCB41	749	EST00732	M78583	HFBCD40	805	EST00761	M78613	HFBCB18
59	EST01517	M77933	HFBCB46	684	EST00678	M78530	HFBCB42	750	EST00733	M78584	HFBCD41	806	EST00762	M78614	HFBCB19
59	EST01518	M77934	HFBCB47	685	EST00679	M78531	HFBCB43	751	EST00734	M78585	HFBCD42	807	EST00763	M78615	HFBCB20
59	EST01519	M77935	HFBCB48	686	EST00680	M78532	HFBCB44	752	EST00735	M78586	HFBCD43	808	EST00764	M78616	HFBCB21
59	EST01520	M77936	HFBCB49	687	EST00681	M78533	HFBCB45	753	EST00736	M78587	HFBCD44	809	EST00765	M78617	HFBCB22
59	EST01521	M77937	HFBCB50	688	EST00682	M78534	HFBCB46	754	EST00737	M78588	HFBCD45	810	EST00766	M78618	HFBCB23
59	EST01522	M77938	HFBCB51	689	EST00683	M78535	HFBCB47	755	EST00738	M78589	HFBCD46	811	EST00767	M78619	HFBCB24
59	EST01523	M77939	HFBCB52	690	EST00684	M78536	HFBCB48	756	EST00739	M78590	HFBCD47	812	EST00768	M78620	HFBCB25
59	EST01524	M77940	HFBCB53	691	EST00685	M78537	HFBCB49	757	EST00740	M78591	HFBCD48	813	EST00769	M78621	HFBCB26
59	EST01525	M77941	HFBCB54	692	EST00686	M78538	HFBCB50	758	EST00741	M78592	HFBCD49	814	EST00770	M78622	HFBCB27
59	EST01526	M77942	HFBCB55	693	EST00687	M78539	HFBCB51	759	EST00742	M78593	HFBCD50	815	EST00771	M78623	HFBCB28
59	EST01527	M77943	HFBCB56	694	EST00688	M78540	HFBCB52	760	EST00743	M78594	HFBCD51	816	EST00772	M78624	HFBCB29
59	EST01528	M77944	HFBCB57	695	EST00689	M78541	HFBCB53	761	EST00744	M78595	HFBCD52	817	EST00773	M78625	HFBCB30
59	EST01529	M77945	HFBCB58	696	EST00690	M78542	HFBCB54	762	EST00745	M78596	HFBCD53	818	EST00774	M78626	HFBCB31
59	EST01530	M77946	HFBCB59	697	EST00691	M78543	HFBCB55	763	EST00746	M78597	HFBCD54	819	EST00775	M78627	HFBCB32
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59	EST01532	M77948	HFBCB61	699	EST00693	M78545	HFBCB57	765	EST00748	M78599	HFBCD56	821	EST00777	M78629	HFBCB34
59	EST01533	M77949	HFBCB62	700	EST00694	M78546	HFBCB58	766	EST00749	M78600	HFBCD57	822	EST00778	M78630	HFBCB35
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59	EST01536	M77952	HFBCB65	703	EST00697	M78549	HFBCB61	769	EST00752	M78603	HFBCD60	825	EST00781	M78633	HFBCB38
59	EST01537	M77953	HFBCB66	704	EST00698	M78550	HFBCB62	770	EST00753	M78604	HFBCD61	826	EST00782	M78634	HFBCB39
59	EST01538	M77954	HFBCB67	705	EST00699	M78551	HFBCB63	771	EST00754	M78605	HFBCD62	827	EST00783	M78635	HFBCB40
59	EST01539	M77955	HFBCB68	706											

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SEQ. ID	EST#	GB#	Clone	SEQ. ID	EST#	GB#	Clone	SEQ. ID	EST#	GB#	Clone
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74	EST00722	78574	HFBC69	820	EST01860	M85346	HFBCG02	886	EST01886	M85372	HFBC14
75	EST00723	78575	HFBC72	821	EST01862	M85348	HFBCG09	887	EST01887	M85373	HFBC15
76	EST01541	77957	HFBC73	822	EST01863	M85349	HFBCG10	888	EST01888	M85374	HFBC16
77	EST01542	77958	HFBC74	823	EST01864	M85350	HFBCG11	889	EST01889	M85375	HFBC17
78	EST00724	78576	HFBC77	824	EST01865	M85351	HFBCG12	890	EST01890	M85376	HFBC18
79	EST00725	78577	HFBC78	825	EST01866	M85352	HFBCG13	891	EST01891	M85377	HFBC20
80	EST00726	78578	HFBC80	826	EST01867	M85353	HFBCG15	892	EST01892	M85378	HFBC21
81	EST01544	77960	HFBC82	827	EST01558	M77974	HFBCG17	893	EST01893	M85379	HFBC22
82	EST00727	78579	HFBC83	828	EST00767	M78619	HFBCG19	894	EST01894	M85380	HFBC23
83	EST00728	78580	HFBC84	829	EST00768	M78620	HFBCG20	895	EST01895	M85381	HFBC24
84	EST00729	78581	HFBC85	830	EST01559	M77975	HFBCG21	896	EST01896	M85382	HFBC31
85	EST00730	78582	HFBC86	831	EST00769	M78621	HFBCG22	897	EST01897	M85383	HFBC33
86	EST00731	78583	HFBC87	832	EST00770	M78622	HFBCG23	898	EST01898	M85384	HFBC34
87	EST00732	78584	HFBC88	833	EST01560	M77976	HFBCG24	899	EST01899	M85385	HFBC35
88	EST00733	78585	HFBC90	834	EST00771	M78623	HFBCG25	900	EST01900	M85386	HFBC36
89	EST00734	78586	HFBC91	835	EST00772	M78624	HFBCG26	901	EST01901	M85387	HFBC37
90	EST00735	78587	HFBC93	836	EST00773	M78625	HFBCG27	902	EST01902	M85388	HFBC38
91	EST01546	77962	HFBC94	837	EST01561	M77977	HFBCG29	903	EST01903	M85389	HFBC39
92	EST00736	78588	HFBC95	838	EST00774	M78626	HFBCG30	904	EST01904	M85390	HFBC42
93	EST01547	77963	HFBC96	839	EST01562	M77978	HFBCG31	905	EST01905	M85391	HFBC43
94	EST01548	77964	HFBCF01	840	EST00775	M78627	HFBCG32	906	EST01906	M85392	HFBC45
95	EST00737	78589	HFBCF03	841	EST00776	M78628	HFBCG33	907	EST01907	M85393	HFBC46
96	EST00738	78590	HFBCF07	842	EST01563	M77979	HFBCG34	908	EST01908	M85394	HFBC49
97	EST00739	78591	HFBCF09	843	EST01564	M77980	HFBCG35	909	EST01909	M85395	HFBC50
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100	EST01549	77965	HFBCF13	846	EST00778	M78630	HFBCG40	912	EST01912	M85398	HFBC58
101	EST01550	77966	HFBCF14	847	EST00779	M78631	HFBCG43	913	EST01913	M85399	HFBC60
102	EST01551	77967	HFBCF16	848	EST01566	M77982	HFBCG44	914	EST01914	M85400	HFBC61
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104	EST01852	M85338	HFBCF41	850	EST00780	M78632	HFBCG47	916	EST01917	M85402	HFBC65
105	EST01553	M77969	HFBCF42	851	EST00781	M78633	HFBCG49	917	EST01919	M85403	HFBC68
106	EST00742	M78594	HFBCF43	852	EST00782	M78634	HFBCG51	918	EST01920	M85404	HFBC70
107	EST00743	M78595	HFBCF44	853	EST00783	M78635	HFBCG53	919	EST01921	M85405	HFBC71
108	EST00744	M78596	HFBCF45	854	EST00784	M78636	HFBCG57	920	EST01922	M85406	HFBC72
109	EST00745	M78597	HFBCF46	855	EST00785	M78637	HFBCG61	921	EST01923	M85407	HFBC73
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111	EST00746	M78598	HFBCF48	857	EST01868	M85354	HFBCG69	923	EST01925	M85409	HFBC76
112	EST00747	M78599	HFBCF49	858	EST01869	M85355	HFBCG72	924	EST01926	M85411	HFBC77
113	EST00748	M78600	HFBCF50	859	EST01870	M85356	HFBCG73	925	EST01927	M85412	HFBC78
114	EST01555	M77971	HFBCF51	860	EST00786	M78638	HFBCG74	926	EST01929	M85414	HFBC81
115	EST00749	M78601	HFBCF52	861	EST01871	M85357	HFBCG76	927	EST01930	M85415	HFBC82
116	EST00750	M78602	HFBCF53	862	EST01872	M85358	HFBCG77	928	EST01931	M85416	HFBC84
117	EST00751	M78603	HFBCF54	863	EST01873	M85359	HFBCG78	929	EST01932	M85417	HFBC86
118	EST01853	M85339	HFBCF56	864	EST00787	M78639	HFBCG79	930	EST01933	M85418	HFBC87
119	EST00752	M78604	HFBCF57	865	EST01569	M77985	HFBCG80	931	EST01934	M85419	HFBC89
120	EST00753	M78605	HFBCF58	866	EST01874	M85360	HFBCG81	932	EST01935	M85420	HFBC92
121	EST00754	M78606	HFBCF60	867	EST01875	M85361	HFBCG83	933	EST01936	M85421	HFBC93
122	EST00755	M78607	HFBCF61	868	EST01876	M85362	HFBCG84	934	EST01937	M85422	HFBC94
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125	EST00758	M78610	HFBCF73	871	EST00790	M78642	HFBCG89	937	EST01940	M85425	HFBC101
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127	EST00760	M78612	HFBCF75	873	EST00792	M78644	HFBCG93	939	EST01943	M85427	HFBC105
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129	EST00762	M78614	HFBCF81	875	EST00794	M78646	HFBCG96	941	EST01945	M85429	HFBC108
130	EST00763	M78615	HFBCF84	876	EST00795	M78647	HFBCG99				
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132	EST01854	M85340	HFBCF86	878	EST01878	M85364	HFBC102				
133	EST00765	M78617	HFBCF87	879	EST01879	M85365	HFBC103				
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135	EST01855	M85341	HFBCF90	881	EST01881	M85367	HFBC106				
136	EST01856	M85342	HFBCF91	882	EST01882	M85368	HFBC107				
137	EST01857	M85343	HFBCF93	883	EST01883	M85369	HFBC108				
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SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
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944	EST01949	M85433	HFBC113	1010	EST02024	M85508	HFBCJ18	1076	EST02094	M85578	HFBCK31
945	EST01950	M85434	HFBC114	1011	EST02025	M85509	HFBCJ20	1077	EST02095	M85579	HFBCK32
946	EST01951	M85435	HFBC115	1012	EST02026	M85510	HFBCJ21	1078	EST02096	M85580	HFBCK33
947	EST01952	M85436	HFBC116	1013	EST02027	M85511	HFBCJ22	1079	EST02097	M85581	HFBCK34
948	EST01953	M85437	HFBC117	1014	EST02028	M85512	HFBCJ23	1080	EST02098	M85582	HFBCK35
949	EST01954	M85438	HFBC118	1015	EST02029	M85513	HFBCJ24	1081	EST02099	M85583	HFBCK36
950	EST01955	M85439	HFBC119	1016	EST02030	M85514	HFBCJ25	1082	EST02100	M85584	HFBCK37
951	EST01956	M85440	HFBC120	1017	EST02031	M85515	HFBCJ26	1083	EST02101	M85585	HFBCK38
952	EST01957	M85441	HFBC121	1018	EST02032	M85516	HFBCJ27	1084	EST02102	M85586	HFBCK39
953	EST01958	M85442	HFBC122	1019	EST02033	M85517	HFBCJ28	1085	EST02103	M85587	HFBCK40
954	EST01959	M85443	HFBC123	1020	EST02034	M85518	HFBCJ29	1086	EST02104	M85588	HFBCK41
955	EST01960	M85444	HFBC124	1021	EST02035	M85519	HFBCJ30	1087	EST02105	M85589	HFBCK42
956	EST01961	M85445	HFBC125	1022	EST02036	M85520	HFBCJ31	1088	EST02106	M85590	HFBCK43
957	EST01962	M85446	HFBC126	1023	EST02037	M85521	HFBCJ32	1089	EST02107	M85591	HFBCK44
958	EST01963	M85447	HFBC127	1024	EST02038	M85522	HFBCJ33	1090	EST02108	M85592	HFBCK45
959	EST01964	M85448	HFBC128	1025	EST02039	M85523	HFBCJ34	1091	EST02109	M85593	HFBCK46
960	EST01965	M85449	HFBC129	1026	EST02040	M85524	HFBCJ35	1092	EST02110	M85594	HFBCK47
961	EST01966	M85450	HFBC130	1027	EST02041	M85525	HFBCJ36	1093	EST02111	M85595	HFBCK48
962	EST01967	M85451	HFBC131	1028	EST02042	M85526	HFBCJ37	1094	EST02112	M85596	HFBCK49
963	EST01968	M85452	HFBC132	1029	EST02043	M85527	HFBCJ38	1095	EST02113	M85597	HFBCK50
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968	EST01973	M85457	HFBC137	1034	EST02048	M85532	HFBCJ43	1100	EST02118	M85602	HFBCK55
969	EST01974	M85458	HFBC138	1035	EST02049	M85533	HFBCJ44	1101	EST02119	M85603	HFBCK56
970	EST01975	M85459	HFBC139	1036	EST02050	M85534	HFBCJ45	1102	EST02120	M85604	HFBCK57
971	EST01976	M85460	HFBC140	1037	EST02051	M85535	HFBCJ46	1103	EST02121	M85605	HFBCK58
972	EST01977	M85461	HFBC141	1038	EST02052	M85536	HFBCJ47	1104	EST02122	M85606	HFBCK59
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974	EST01979	M85463	HFBC143	1040	EST02054	M85538	HFBCJ49	1106	EST02124	M85608	HFBCK61
975	EST01980	M85464	HFBC144	1041	EST02055	M85539	HFBCJ50	1107	EST02125	M85609	HFBCK62
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977	EST01982	M85466	HFBC146	1043	EST02057	M85541	HFBCJ52	1109	EST02127	M85611	HFBCK64
978	EST01983	M85467	HFBC147	1044	EST02058	M85542	HFBCJ53	1110	EST02128	M85612	HFBCK65
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991	EST01996	M85480	HFBC160	1057	EST02071	M85555	HFBCJ66	1123	EST02141	M85625	HFBCK78
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995	EST02000	M85484	HFBC164	1061	EST02075	M85559	HFBCJ70	1127	EST02145	M85629	HFBCK82
996	EST02001	M85485	HFBC165	1062	EST02076	M85560	HFBCJ71	1128	EST02146	M85630	HFBCK83
997	EST02002	M85486	HFBC166	1063	EST02077	M85561	HFBCJ72	1129	EST02147	M85631	HFBCK84
998	EST02003	M85487	HFBC167	1064	EST02078	M85562	HFBCJ73		EST02148	M85632	HFBCK85
999	EST02004	M85488	HFBC168	1065	EST02079	M85563	HFBCJ74		EST02149	M85633	HFBCK86
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1006	EST02011	M85495	HFBC175	1072	EST02086	M85570	HFBCJ81				
1007	EST02012	M85496	HFBC176	1073	EST02087	M85571	HFBCJ82				
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	EST02014	M85498	HFBC178		EST02089	M85573	HFBCJ84				
	EST02015	M85499	HFBC179		EST02090	M85574	HFBCJ85				
	EST02016	M85500	HFBC180		EST02091	M85575	HFBCJ86				
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	EST02018	M85502	HFBC182								
	EST02019	M85503	HFBC183								
	EST02020	M85504	HFBC184								
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SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
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1133	EST02153	M85636	HFBC120	1254	EST02283	M85762	HFBC129
1134	EST02154	M85637	HFBC122	1255	EST02284	M85763	HFBC131
1135	EST02155	M85638	HFBC123	1256	EST02285	M85764	HFBC136
1136	EST02156	M85639	HFBC124	1257	EST02286	M85765	HFBC137
1137	EST02157	M85640	HFBC125	1258	EST02287	M85766	HFBC139
1138	EST02158	M85641	HFBC128	1259	EST02288	M85767	HFBC140
1139	EST02159	M85642	HFBC130	1260	EST02289	M85768	HFBC142
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1142	EST02162	M85645	HFBC133	1263	EST02292	M85771	HFBC149
1143	EST02163	M85646	HFBC134	1264	EST02293	M85772	HFBC150
1144	EST02164	M85647	HFBC135	1265	EST02294	M85773	HFBC151
1145	EST02165	M85648	HFBC136	1266	EST02295	M85774	HFBC152
1146	EST02166	M85649	HFBC138	1267	EST02296	M85775	HFBC154
1147	EST02167	M85650	HFBC139	1268	EST02297	M85776	HFBC155
1148	EST02168	M85651	HFBC141	1269	EST02298	M85777	HFBC156
1149	EST02169	M85652	HFBC146	1270	EST02299	M85778	HFBC157
1150	EST02170	M85653	HFBC147	1271	EST02300	M85779	HFBC158
1151	EST02171	M85654	HFBC151	1272	EST02301	M85780	HFBC159
1152	EST02172	M85655	HFBC154	1273	EST02302	M85781	HFBC160
1153	EST02173	M85656	HFBC158	1274	EST02303	M85782	HFBC161
1154	EST02174	M85657	HFBC159	1275	EST02304	M85783	HFBC162
1155	EST02175	M85658	HFBC164	1276	EST02305	M85784	HFBC165
1156	EST02176	M85659	HFBC168	1277	EST02306	M85785	HFBC166
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1158	EST02178	M85661	HFBC172	1279	EST02308	M85787	HFBC170
1159	EST02179	M85662	HFBC173	1280	EST02309	M85788	HFBC177
1160	EST02180	M85663	HFBC174	1281	EST02310	M85789	HFBC178
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1162	EST02182	M85665	HFBC176	1283	EST02312	M85791	HFBC181
1163	EST02183	M85666	HFBC177	1284	EST02313	M85792	HFBC182
1164	EST02184	M85667	HFBC178	1285	EST02314	M85793	HFBC183
1165	EST02185	M85668	HFBC179	1286	EST02315	M85794	HFBC184
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1167	EST02187	M85670	HFBC181	1288	EST02317	M85796	HFBC186
1168	EST02188	M85671	HFBC182	1289	EST02318	M85797	HFBC187
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1171	EST02191	M85674	HFBC185	1292	EST02321	M85800	HFBC190
1172	EST02192	M85675	HFBC186	1293	EST02322	M85801	HFBC191
1173	EST02193	M85676	HFBC187	1294	EST02323	M85802	HFBC192
1174	EST02194	M85677	HFBC188	1295	EST02324	M85803	HFBC193
1175	EST02195	M85678	HFBC189	1296	EST02325	M85804	HFBC194
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SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
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1316	EST02346	M85823	HFBC039	1382	EST02414	M85890	HFBCP23	1448	EST02484	M85960	HFBC002				
1317	EST02347	M85824	HFBC041	1383	EST02415	M85891	HFBCP24	1449	EST02485	M85961	HFBC003				
1318	EST02348	M85825	HFBC042	1384	EST02416	M85892	HFBCP25	1450	EST02486	M85962	HFBC004				
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1320	EST02350	M85827	HFBC044	1386	EST02418	M85894	HFBCP27	1452	EST02488	M85964	HFBC006				
1321	EST02351	M85828	HFBC045	1387	EST02419	M85895	HFBCP28	1453	EST02489	M85965	HFBC007				
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1327	EST02357	M85834	HFBC051	1393	EST02425	M85901	HFBCP34	1459	EST02495	M85971	HFBC013				
1328	EST02358	M85835	HFBC052	1394	EST02426	M85902	HFBCP35	1460	EST02496	M85972	HFBC014				
1329	EST02359	M85836	HFBC053	1395	EST02427	M85903	HFBCP36	1461	EST02497	M85973	HFBC015				
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1331	EST02361	M85838	HFBC055	1397	EST02429	M85905	HFBCP38	1463	EST02499	M85975	HFBC017				
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1341	EST02371	M85848	HFBC065	1407	EST02439	M85915	HFBCP48	1473	EST02509	M85985	HFBC027				
1342	EST02372	M85849	HFBC066	1408	EST02440	M85916	HFBCP49	1474	EST02510	M85986	HFBC028				
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1357	EST02387	M85864	HFBC081	1423	EST02455	M85931	HFBCP64	1489	EST02525	M86001	HFBC043				
1358	EST02388	M85865	HFBC082	1424	EST02456	M85932	HFBCP65	1490	EST02526	M86002	HFBC044				
1359	EST02389	M85866	HFBC083	1425	EST02457	M85933	HFBCP66	1491	EST02527	M86003	HFBC045				
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1373	EST02403	M85880	HFBC097	1439	EST02471	M85947	HFBCP80								
1374	EST02404	M85881	HFBC098	1440	EST02472	M85948	HFBCP81								
1375	EST02405	M85882	HFBC099	1441	EST02473	M85949	HFBCP82								
1376	EST02406	M85883	HFBC100	1442	EST02474	M85950	HFBCP83								
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1504	EST02542	M86017	HFBCY30	1570	EST02613	M86088	HFBDJ17	1636	EST02683	M85317	HFBDJ17	1692	EST01578	M77993	HHCMA39
1505	EST02543	M86018	HFBCY31	1571	EST02614	M86089	HFBDJ18	1637	EST02684	M85318	HFBDJ18	1693	EST01579	M77994	HHCMA40
1506	EST02544	M86019	HFBCY32	1572	EST02615	M86090	HFBDJ19	1638	EST02685	M85319	HFBDJ19	1694	EST01580	M77995	HHCMA41
1507	EST02545	M86020	HFBCY33	1573	EST02616	M86091	HFBDJ20	1639	EST02686	M85320	HFBDJ20	1695	EST01581	M77996	HHCMA42
1508	EST02546	M86021	HFBCY34	1574	EST02617	M86092	HFBDJ21	1640	EST02687	M85321	HFBDJ21	1696	EST01582	M77997	HHCMA43
1509	EST02547	M86022	HFBCY35	1575	EST02618	M86093	HFBDJ22	1641	EST02688	M85322	HFBDJ22	1697	EST01583	M77998	HHCMA44
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1513	EST02551	M86026	HFBCY39	1579	EST02622	M86097	HFBDJ26	1645	EST02692	M85326	HFBDJ26	1701	EST01587	M78002	HHCMA48
1514	EST02552	M86027	HFBCY40	1580	EST02623	M86098	HFBDJ27	1646	EST02693	M85327	HFBDJ27	1702	EST01588	M78003	HHCMA49
1515	EST02553	M86028	HFBCY41	1581	EST02624	M86099	HFBDJ28	1647	EST02694	M85328	HFBDJ28	1703	EST01589	M78004	HHCMA50
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1517	EST02555	M86030	HFBCY43	1583	EST02626	M86101	HFBDJ30	1649	EST02696	M85330	HFBDJ30	1705	EST01591	M78006	HHCMA52
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1520	EST02558	M86033	HFBCY46	1586	EST02629	M86104	HFBDJ33	1652	EST02699	M85333	HFBDJ33	1708	EST01594	M78009	HHCMA55
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1522	EST02560	M86035	HFBCY48	1588	EST02631	M86106	HFBDJ35	1654	EST02701	M85335	HFBDJ35	1710	EST01596	M78011	HHCMA57
1523	EST02561	M86036	HFBCY49	1589	EST02632	M86107	HFBDJ36	1655	EST02702	M85336	HFBDJ36	1711	EST01597	M78012	HHCMA58
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1535	EST02573	M86048	HFBCY61	1601	EST02644	M86119	HFBDJ48	1667	EST02714	M85348	HFBDJ48	1723	EST01609	M78024	HHCMA70
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1548	EST02586	M86061	HFBCY74	1614	EST02657	M86132	HFBDJ61	1680	EST02727	M85361	HFBDJ61	1736	EST01622	M78037	HHCMA83
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1551	EST02589	M86064	HFBCY77	1617	EST02660	M86135	HFBDJ64	1683	EST02730	M85364	HFBDJ64	1739	EST01625	M78040	HHCMA86
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1563	EST02601	M86076	HFBCY89	1629	EST02672	M86147	HFBDJ76	1695	EST02742	M85376	HFBDJ76	1751	EST01637	M78052	HHCMA98
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1573	EST02611	M86086	HFBCY99	1639	EST02682	M86157	HFBDJ86	1705	EST02752	M85386	HFBDJ86	1761	EST01647	M78062	HHCMA108
1574	EST02612	M86087	HFBCY00	1640	EST02683	M86158	HFBDJ87	1706	EST02753	M85387	HFBDJ87	1762	EST01648	M78063	HHCMA109
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1576	EST02614	M86089	HFBCY02	1642	EST02685	M86160	HFBDJ89	1708	EST02755	M85389	HFBDJ89	1764	EST01650	M78065	HHCMA111
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1693	EST100848	M78700	HHCNC44	HHCNC22	M78754	EST00902	1759
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1695	EST100850	M78702	HHCNC52	HHCNC24	M78756	EST01598	1761
1696	EST100851	M78703	HHCNC53	HHCNC25	M78757	EST00904	1762
1697	EST100852	M78704	HHCNC54	HHCNC26	M78758	EST00905	1763
1698	EST102685	M86154	HHCNC55	HHCNC27	M78759	EST01600	1764
1699	EST102686	M86155	HHCNC56	HHCNC28	M78760	EST00906	1765
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1701	EST100853	M78705	HHCNC63	HHCNC30	M78762	EST00908	1767
1702	EST100854	M78706	HHCNC70	HHCNC31	M78763	EST00909	1768
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1704	EST101580	M77995	HHCNC72	HHCNC33	M78765	EST00910	1770
1705	EST100856	M78708	HHCNC77	HHCNC34	M78766	EST01601	1771
1706	EST100857	M78709	HHCNC78	HHCNC35	M78767	EST02691	1772
1707	EST101581	M77996	HHCNC79	HHCNC36	M78768	EST00911	1773
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1709	EST100859	M78711	HHCNC85	HHCNC38	M78770	EST02692	1775
1710	EST100860	M78712	HHCNC87	HHCNC39	M78771	EST01603	1776
1711	EST100861	M78713	HHCNC88	HHCNC40	M78772	EST00913	1777
1712	EST100862	M78714	HHCNC89	HHCNC41	M78773	EST00914	1778
1713	EST100863	M78715	HHCNC90	HHCNC42	M78774	EST00915	1779
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1715	EST101583	M77998	HHCND06	HHCNC44	M78776	EST00917	1781
1716	EST100865	M78717	HHCND08	HHCNC45	M78777	EST00918	1782
1717	EST100866	M78718	HHCND10	HHCNC46	M78778	EST00919	1783
1718	EST100867	M78719	HHCND15	HHCNC47	M78779	EST00920	1784
1719	EST100868	M78720	HHCND16	HHCNC48	M78780	EST00921	1785
1720	EST100869	M78721	HHCND17	HHCNC49	M78781	EST00922	1786
1721	EST100870	M78722	HHCND20	HHCNC50	M78782	EST00923	1787
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1723	EST100872	M78724	HHCND22	HHCNC52	M78784	EST00925	1789
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1725	EST100874	M78726	HHCND29	HHCNC54	M78786	EST00927	1791
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1749	EST100893	M78747	HHCND93	HHCNC78	M78810	EST01615	1815
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1753	EST100897	M78751	HHCNE07	HHCNC82	M78814	EST00950	1819
1754	EST100898	M78752	HHCNE10	HHCNC83	M78815	EST100951	1820
1755	EST100899	M78753	HHCNE11	HHCNC84	M78816	EST100952	1821
1756	EST100900	M78754	HHCNE13	HHCNC85	M78817	EST00953	1822
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1884	EST01002	W78854	HHCNH55	2016	EST01110	W78962	HHCPC10
1885	EST01039	W78052	HHCNH56	2017	EST01111	W78963	HHCPC11
1886	EST01003	W78855	HHCNH57	2018	EST01112	W78964	HHCPC11
1887	EST01004	W78856	HHCNH72	2019	EST01113	W78965	HHCPC14
1888	EST01005	W78857	HHCNH73	2020	EST01114	W78966	HHCPC16
1889	EST01006	W78858	HHCNH74	2021	EST01115	W78967	HHCPC18
1890	EST01007	W78859	HHCNH75	2022	EST01116	W78968	HHCPC18
1891	EST01008	W78860	HHCNH77	2023	EST01117	W78969	HHCPC37
1892	EST01009	W78861	HHCNH77	2024	EST01118	W78970	HHCPC40
1893	EST01010	W78862	HHCNH81	2025	EST01119	W78971	HHCPC42
1894	EST01011	W78863	HHCNH89	2026	EST01120	W78972	HHCPC44
1895	EST01012	W78864	HHCNH91	2027	EST01121	W78973	HHCPC45
1896	EST01013	W78865	HHCNH91	2028	EST01122	W78974	HHCPC49
1897	EST01014	W78866	HHCNH91	2029	EST01123	W78975	HHCPC52
1898	EST01015	W78867	HHCNH91	2030	EST01124	W78976	HHCPC53
1899	EST01016	W78868	HHCNH91	2031	EST01125	W78977	HHCPC55
1900	EST01017	W78869	HHCNH91	2032	EST01126	W78978	HHCPC55
1901	EST01018	W78870	HHCNH91	2033	EST01127	W78979	HHCPC58
1902	EST01019	W78871	HHCNH91	2034	EST01128	W78980	HHCPC58
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1907	EST01024	W78876	HHCNH91	2039	EST01133	W78985	HHCPC58
1908	EST01025	W78877	HHCNH91	2040	EST01134	W78986	HHCPC58
1909	EST01026	W78878	HHCNH91	2041	EST01135	W78987	HHCPC58
1910	EST01027	W78879	HHCNH91	2042	EST01136	W78988	HHCPC58
1911	EST01028	W78880	HHCNH91	2043	EST01137	W78989	HHCPC58
1912	EST01029	W78881	HHCNH91	2044	EST01138	W78990	HHCPC58
1913	EST01030	W78882	HHCNH91	2045	EST01139	W78991	HHCPC58
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1916	EST01033	W78885	HHCNH91	2048	EST01142	W78994	HHCPC58
1917	EST01034	W78886	HHCNH91	2049	EST01143	W78995	HHCPC58
1918	EST01035	W78887	HHCNH91	2050	EST01144	W78996	HHCPC58
1919	EST01036	W78888	HHCNH91	2051	EST01145	W78997	HHCPC58
1920	EST01037	W78889	HHCNH91	2052	EST01146	W78998	HHCPC58
1921	EST01038	W78890	HHCNH91	2053	EST01147	W78999	HHCPC58
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1923	EST01040	W78892	HHCNH91	2055	EST01149	W79001	HHCPC58
1924	EST01041	W78893	HHCNH91	2056	EST01150	W79002	HHCPC58
1925	EST01042	W78894	HHCNH91	2057	EST01151	W79003	HHCPC58
1926	EST01043	W78895	HHCNH91	2058	EST01152	W79004	HHCPC58
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1928	EST01045	W78897	HHCNH91	2060	EST01154	W79006	HHCPC58
1929	EST01046	W78898	HHCNH91	2061	EST01155	W79007	HHCPC58
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1932	EST01049	W78901	HHCNH91	2064	EST01158	W79010	HHCPC58
1933	EST01050	W78902	HHCNH91	2065	EST01159	W79011	HHCPC58
1934	EST01051	W78903	HHCNH91	2066	EST01160	W79012	HHCPC58
1935	EST01052	W78904	HHCNH91	2067	EST01161	W79013	HHCPC58
1936	EST01053	W78905	HHCNH91	2068	EST01162	W79014	HHCPC58
1937	EST01054	W78906	HHCNH91	2069	EST01163	W79015	HHCPC58
1938	EST01055	W78907	HHCNH91	2070	EST01164	W79016	HHCPC58
1939	EST01056	W78908	HHCNH91	2071	EST01165	W79017	HHCPC58
1940	EST01057	W78909	HHCNH91	2072	EST01166	W79018	HHCPC58
1941	EST01058	W78910	HHCNH91	2073	EST01167	W79019	HHCPC58
1942	EST01059	W78911	HHCNH91	2074	EST01168	W79020	HHCPC58
1943	EST01060	W78912	HHCNH91	2075	EST01169	W79021	HHCPC58
1944	EST01061	W78913	HHCNH91	2076	EST01170	W79022	HHCPC58
1945	EST01062	W78914	HHCNH91	2077	EST01171	W79023	HHCPC58
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2071	EST01152	HHCPI32	M78106	2203	EST01264	HHCPI40	M79053	2259	EST01265	HHCPI41	M79157	2260	EST01266	HHCPI42	M79158
2072	EST01153	HHCPI33	M79004	2204	EST01265	HHCPI42	M78125	2260	EST01266	HHCPI43	M79159	2261	EST01267	HHCPI44	M79160
2073	EST01154	HHCPI35	M78107	2205	EST01266	HHCPI44	M79054	2261	EST01267	HHCPI45	M79161	2262	EST01268	HHCPI46	M79162
2074	EST01155	HHCPI39	M78108	2206	EST01267	HHCPI45	M79055	2262	EST01268	HHCPI47	M79163	2263	EST01269	HHCPI48	M79164
2075	EST01156	HHCPI40	M79005	2207	EST01268	HHCPI46	M79056	2263	EST01269	HHCPI49	M79164	2264	EST01270	HHCPI50	M79165
2076	EST02702	HHCPI42	M66170	2208	EST01269	HHCPI47	M79057	2264	EST01270	HHCPI51	M79165	2265	EST01271	HHCPI52	M79166
2077	EST01157	HHCPI44	M79007	2209	EST01270	HHCPI48	M79058	2265	EST01271	HHCPI53	M79166	2266	EST01272	HHCPI54	M79167
2078	EST01158	HHCPI45	M79008	2210	EST01271	HHCPI49	M79059	2266	EST01272	HHCPI55	M79167	2267	EST01273	HHCPI56	M79168
2079	EST01159	HHCPI46	M79009	2211	EST01272	HHCPI50	M79060	2267	EST01273	HHCPI57	M79168	2268	EST01274	HHCPI58	M79169
2080	EST01160	HHCPI47	M79010	2212	EST01273	HHCPI51	M79061	2268	EST01274	HHCPI59	M79169	2269	EST01275	HHCPI60	M79170
2081	EST01161	HHCPI48	M79011	2213	EST01274	HHCPI52	M79062	2269	EST01275	HHCPI61	M79170	2270	EST01276	HHCPI62	M79171
2082	EST01162	HHCPI49	M79012	2214	EST01275	HHCPI53	M79063	2270	EST01276	HHCPI63	M79171	2271	EST01277	HHCPI64	M79172
2083	EST01163	HHCPI50	M79013	2215	EST01276	HHCPI54	M79064	2271	EST01277	HHCPI65	M79172	2272	EST01278	HHCPI66	M79173
2084	EST01164	HHCPI51	M79014	2216	EST01277	HHCPI55	M79065	2272	EST01278	HHCPI67	M79173	2273	EST01279	HHCPI68	M79174
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2093	EST01173	HHCPI60	M79022	2225	EST01286	HHCPI64	M79074	2281	EST01287	HHCPI85	M79182	2282	EST01288	HHCPI86	M79183
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2260	EST01305	M79157	HCPN54	M79206	EST01354	HCPQ07	2393	EST01417	M79262	HRBA07
2261	EST01306	M78162	HCPN60	M79207	EST01355	HCPQ12	2394	EST01418	M79263	HRBA20
2262	EST01307	M79158	HCPN63	M79208	EST01356	HCPQ13	2395	EST01419	M79264	HRBA26
2263	EST01308	M79159	HCPN64	M78200	EST01792	HCPQ16	2396	EST01420	M79265	HRBA27
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2265	EST01310	M79161	HCPN66	M78201	EST01794	HCPQ23	2398	EST01422	M79267	HRBA06
2266	EST01311	M78163	HCPN70	M79210	EST01358	HCPQ29	2399	EST01423	M79268	HRBA08
2267	EST01312	M79164	HCPN76	M79211	EST01359	HCPQ50	2400	EST01424	M79269	HRBA11
2268	EST01313	M79165	HCPN92	M79212	EST01360	HCPQ62	2401	EST01425	M79270	HRBA22
2269	EST01314	M79166	HCPN96	M79213	EST01361	HCPQ68	2402	EST01426	M79271	HRBA23
2270	EST01315	M79167	HCPN99	M86174	EST02706	HCPQ70	2403	EST01427	M79272	HRBA24
2271	EST01316	M79168	HCPN00	M79214	EST01362	HCPQ75	2404	EST02713	M86178	HRBA22
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2274	EST01319	M79170	HCPN07	M79217	EST01364	HCPQ90	2407	EST00273	M62211	HRBA22
2275	EST01320	M79171	HCPN08	M79218	EST01365	HCPQ91	2408			
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2277	EST01322	M79173	HCPN19	M79220	EST01367	HCPQ94				
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2279	EST01324	M79175	HCPN25	M79222	EST01369	HCPR02				
2280	EST01325	M79176	HCPN27	M79223	EST01370	HCPR10				
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2315	EST01360	M79211	HCPN85	M79257	EST01402	HCPR99				
2316	EST01361	M79212	HCPN86	M79258	EST01403	HCPR99				
2317	EST01362	M79213	HCPN87	M79259	EST01404	HCPR99				
2318	EST01363	M79214	HCPN88	M86177	EST01405	HCPR99				
2319	EST01364	M79215	HCPN89	M79260	EST01406	HCPR99				
2320	EST01365	M79216	HCPN90		EST02712	HCPR99				
2321	EST01366	M79217	HCPN91		EST01415	HCPR99				
2322	EST01367	M79218	HCPN92							
2323	EST01368	M79219	HCPN93							
2324	EST01369	M79220	HCPN94							
2325	EST01370	M79221	HCPN95							

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NOTE REGARDING SEQUENCE LISTINGS: The listings of SEQ ID NOS: 1-2421 are in numerical order. However, an occasional number (for example, SEQ ID NO: 44) is not found in this list. In all, 9 SEQ ID NOS are not used. Nevertheless, the convention "1-2421" is used, for example, to refer to all the SEQ ID NOS in the following list, while "1-315" is used, for example, to refer to all the listed sequences falling between SEQ ID NO 1 and SEQ ID NO 315.

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SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Venter, J. Craig
Adams, Mark D.
Moreno, Ruben F.
- (ii) TITLE OF INVENTION: Sequences Characteristic of Human Gene
Transcription Product
- (iii) NUMBER OF SEQUENCES: 2412 (1-2421, with 9 SEQ ID NOS unused.)
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Knobbe, Martens, Olson, and Bear
 - (B) STREET: 620 Newport Center Dr. Sixteenth Floor
 - (C) CITY: Newport Beach
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 92660
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 07/837,195
 - (B) FILING DATE: 12-FEB-1992
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 07/716,831
 - (B) FILING DATE: 20-JUN-1991
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Israelsen, Ned A.
 - (B) REGISTRATION NUMBER: 29,655
 - (C) REFERENCE/DOCKET NUMBER: NIH004.004CP1
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 619-235-8550
 - (B) TELEFAX: 619-235-0176

SEQ ID NO:1: (Length of Sequence = 362 Nucleotides)

CTCCCTTTT GTTCCCTCA GTGTCCCTT TAATGCTTC CCTCAITTT CCTAGCAGC ATCCTAGTTG ATGGTCTGGG
TTATCAGAGG AGCAAAAACA TTTAAGTGTC AAATAATGCT CATTGTCTCC CTGGGATTTC TAAACAGAAA AAATGAAGAA

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AGAGGCAGAG AAGAGCTTCA CAAGGTGTGT GCCAGCTCTG CATCATTTCC AGCTGCTCAA CCACCATTTC TCCCATTTTA
GGTCCCCAAA AGTAGGAGGT GGGGCTCAC AGAGCTGCTG TGGGCTTTGG GTATCAAAAG CTGCAGCCAC CATATGGGGC
ACTCCTGGCT GGTGTACAGG GTGGGCATTG CCCAGGTCTT TT

SEQ ID NO:2: (Length of Sequence = 214 Nucleotides)

GTITINCTTT TTTCTTAGCT TCATTTCTCT TAAAAACAA GGAACAAGAA AACATTGCAC CAGCGTTCTA AGCCTCAAAC
AAAANACAAA ACAATCCCC CTGCGAAGAA CAATAAACTT TACATCTCTT TGGCAACAAT AACTTAAAAT CACCCAACCT
CCATTGCTC CAACCACAGC AGTTAGTTAG TTACAAAAT ATTCCNTGTG CTGC

SEQ ID NO:3: (Length of Sequence = 344 Nucleotides)

ATTAAATAGGA AAGATGATTG TATAGATGGT GGGCTATTAA CTCAGATCAG GATGAGAATC GGGAGTGCCT TTACATGTGT
GGTACCCAAA TGGGTGGTGT GATATAAGAG TAACAAAAGG ACTGAAAGGG TTAAAAAGA AAGAAAAAAA AAAAATCCC
TGGTTGGGAG GGTGTTAAGT ATCGAGTGT TTTCCAAACC ATTCTCTCTC TGCTCACCTA CCCCTAGGTG ATTAAAGGAG
ATAACTTTTA AAAAAGAAAG AATTGGCTCA AAGGTACTGT AAATCTAGG ATTATATACC TTTATATAGG TTCATTCCCT
GATCCCTGTA TTATCAAGGC ACAG

SEQ ID NO:4: (Length of Sequence = 352 Nucleotides)

GACCCGGTAA CCGAGGCGC AAGGAGGCA GGTAGTCCCG GCACCTCTCA CTCTGCAGAG ACCAGCGGCT TCGTGGGAGG
CCTGTGGGTC ACACGTAGGG GCTAGAGCCA GCCTGCATCC TGCCACCGG GCTCCACTTG GAGATCAGCA GGAGGGCCAG
TGTTGGACCC CTGCTGCCAC CTCTCCTGGG CCTGTCTCCT TCTGGAAAT TAAGAAGGTG TGCTCCAGAG CCAAGAGGAG
CAATAAGAAA CCTCGTGTGC CAGCTTCTTA AGGGTKGCAG TGCAAGACCC CA

SEQ ID NO:5: (Length of Sequence = 562 Nucleotides)

ATACCTTAC ATATATATTC ACAGAAAATC ATATGCATA TACTCTTCT CCACATCATA AAAATGGGTG TTGGGCTCTC
TAGGACACAA GGAAGCAGG CCAATTTCT CATATTTTCA GGAATAAAT GAGTGCCCG AAGGTGTAAT AGGAACCTTT
TACTAACCTC ATCTGACTTC ATCCTCACAC CAGCATTTTG TGTTAAGGA AACTGGCCGA GAGTGGTTAA GAAATATATC
CAAAGACGTA TAGTTCCAAA TGGAACACGG ATCTTTTAT TTAAATCCA ATCATCTTTC CATTATATCA GCCAATGATG
GAGCAGAAAG CTGGTCCAG CAATCCAGA ATAGATCTTT CTAGGCACCC GTTCAGTGTG AGGAGGGGGA AGTGGCCTTG
CCAAGGGGCC AGTGAGCTCA ATTAGGGTTA ACGCTGCTTC TTAGCCTACC CCAGGGGNC ACGCACITAG GTTGTTTTGT
GCCAGCTTT GGCAGGAAGC ATTCTCTCT TCAAAGATIN NAGCCTTGC GTCATATATC GGGTGTAAATA GGGTCTTTT
TT

SEQ ID NO:6: (Length of Sequence = 359 Nucleotides)

ACATGTTCTC CCTCTTTCAA TTITAGCAGT AATGTGATCC TCAAAAATGC ATTAATACTA GTTGAAGTAA ATAAACGGAA
GAGCTCCAAA ATGCTGCAT TAAATGCAIT TTCCACACT AATGCCAATC ATCCAAAGCT ATTTTCAACA AGTCAGGTAT
TCAAAGCTAT TCACACCACT TGAAAGAGTA ATTACCATTT ACTGAAGCAC TTATCTGTCC TACACTGATG GGAGTAAATG
CTTCTCATAG GTTATCTCAT GTACATTATG CCACTTINAC TTAAAATGAT CACAATTNAG TGCTATAGGT TTTTGGGTTA
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SEQ ID NO:7: (Length of Sequence = 218 Nucleotides)

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AAC TTGCAAC ATAAATACTA GAAAAAGAGA AAATATCATC AAAATACAAA TAACTGTTAG AAATCATGTC TCAAAAGAAR
 AACCTGGCAA TGCATGATTA CGAAATGCAA AAGAMGATAC AGTTGCTCTC TGTATATGCG CTTTCCACAT CCACAGATTG
 AAACAAC TGT GGATAAAAAA GGATTTTTC A TGCCATTAA ACAVCAATGC AACAGTAA

SEQ ID NO:8: (Length of Sequence = 345 Nucleotides)

CTACAATAGA AGGCAACTA TGTCCTCCT TTGCTCAGAA ACTTTTAATA TCTKCCTATT TCCCCATGTA AAAGCCAATC
 CTCAACCACA GTGTAGAAGG GCTATCCATT TCTAGCTACA CATCTCTCA GTCAGTGGCC CCAGCCCCAG TACTTGGGGA
 CTTTGCCCTT GCAGTCCCT GTGCCAGCAA ACTCTTCTC CAGATGTCCA CATGACTCAC CCNCTCTCTT CAGGGGTCTT
 CTCAAATGTC ACTTTACCAG AGGTGGCTTC CCTGACCATC CTGTATAAAT AGCATCACCC TACCTCCTAT CTCTCTCTCT
 AATGTCTCAG GAATTCGATA TCAAG

SEQ ID NO:9: (Length of Sequence = 189 Nucleotides)

GTGAACAGAC TAAGGCCTTT NIGGAGGCC AGAATAAGAT TACTGTGCCA TTTCTTGAGC AGTGTCCCAT CAGAGGTTTA
 TACAAAGAGA GAATGACTGA ACTATATGAT TATCCANGT ATAGTTGCCA CTTCAAGAAA GGAGAACGGT GTTTTTATT
 TTACAATACA GGNITTNAGA ACCACCGG

SEQ ID NO:10: (Length of Sequence = 267 Nucleotides)

CTCCCTTCGC CACCTGCTGG ACGGAGGGG CTACTACGAT GCCATGGGTG TCCTGRTTTT TTATTTCTCA GACAGGACTG
 CTCTGTATNT GTCTTGGAT TCTACGTAGA TTTATATTG TAAATATTA CATTGTTCAT GACCAGAAGA AATGTCAATTA
 TCGTAAATTT TAGATTCTGG NGTCTATATA TGAAGNAAT ACTAACTACT AACTGTTATA ACAWCAAAAT GTGGGNTGTA
 TATCTACARG CCGAGCCGA CTGTCA

SEQ ID NO:11: (Length of Sequence = 247 Nucleotides)

CTCATAAAGC CAGGGTGATA AAATGGTAG TTTTCATGTTA TCTACAAGRC TAAGKTCAA ATTCCATGCA TGTGCTGRTA
 AAAGACCCAT NATGGKCTM ACTGTACTTA TCCCCATTT ATTAGCATTC ATTCGGTCA CCAGCTCTAG TTCCTCTGCT
 TAGCGAATCT CGCTGTCTT CAAGATGTCA TTCAAATGTC ACATTTTGTG GGAAGCCTTG CCTTTTTTGA CACGGTCTCC
 CTGCCAC

SEQ ID NO:12: (Length of Sequence = 280 Nucleotides)

AAGGCGAGAG GCTTCTGGAG AAACCCACCC CACCAACGTC TTGATCTTGG ACTTTTAVCC TCCAGAGCTA TGAGAAAACA
 AVTTTCTGTV VATVGVGCC ACTCAGCCTG TGGATACTGG CAGCCTAGC AAATCATAAC ACACATACAT TTTAACTCG
 GTTTAATCCT GTGRCCATTC ACTTATGGTT CAGTTTTTAA ATAGTCTTAG TCTTATGVCC ACTGTTAAAG TTCACCAGGA
 CATAGGSCAT TGGGGAAAGG GGCCTGTAACT TCTTGGATTA

SEQ ID NO:13: (Length of Sequence = 339 Nucleotides)

VCTVCTVCC AACTTCATTC AGATATTGAC TCTGGTGATG GGAACATTAA ATACATTCTC TCAGGGGAAG GAGCTGGAAC
 CATTTTTVTR ATTGATGACA AATCAGGGAA CATTATGCC ACCAAGACGT TGGATCGAGA AGAGAGAGCC CAGTACACGT
 TGATGGCTCA GCGGTGGAC AGGGACACCA ATCGGCCACT GGAGCCACCG TCGGAATTCA TTKTCAAGGK CCAGGACATT
 AATGACAGTC CTCGGAGGT TTCTGACAG AGACCTATCA TGCCAACTGT GCCSTGTARA GGTCCAATKT TGGGTGSTGT
 ACGGTAGTGG GGAGGCCTG

SEQ ID NO:14: (Length of Sequence = 342 Nucleotides)

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GGGVGCAAAG TAGCAGATTC TAGTAAAGGA CCAGATGAGG CAAAAATTAA GGCACCTCTG GAAAGAACAG GCTACACACT
TGATGTGACC ACTGGACAGA GGAAGTATGG AGGACCACCT CCAGATTCCG TTTATYCAGG TCAGCAGCCT TCTGTGGCA
CTGAGATATT TGTGGGAAAG ATCCCAAGAG ATCTATTTTG AGGATGAACT TGTTCATTA TTTGAGAAAG CTTGGACCTA
TATGGGATCC TTCGTCTAAT GATGGATCCA CTCACCTGGT TCAATAGAGG TTAATGCGTT TGTCACTTTT TTGTACAAAA
GGAGCARGCT CAAGGAGGGC TG

SEQ ID NO:15: (Length of Sequence = 354 Nucleotides)

ATGTTGATGC TGAAATTVAA GATCCACCAA TTCCAGAAAA ACCATGGAAG GTTCATGTGA AATGGATTTT GGACACTGAT
ATTTTCAATG AATGGATGAA TGAGGAGGAT TATRAGGTGG ATGAAATAG GAAGCCTGTR AGTTTYCGTC AGCGGATTTT
AACAAGAAT GAAGAGCCAG TCAGAAGTCC AGAAAGAAGA GATAGAAAAG CATCASCTAA TGCTCGAAAG AGGAAACATT
CGCCTTCGCC TCCCCCTCCG ACACCAACAG AWTACGGGA AGAAGAGTGG GAAGAAAGGC CAAGCTAGCC TTTTATGGGG
AAGCCGCAAG AAGTCCAGAA AGAGGGWWGG TTGA

SEQ ID NO:16: (Length of Sequence = 348 Nucleotides)

CAGGCAAGTT TCTTCCAGGA TGAGAAATCA GTGGAAAGTG AGGGCCAGCC AACAGCCACC ACCAACCACC CAACACGCGA
GCGAGACCAT CTAAAAGAG CCCCAGCCAA GCTGACCATG GGTCTGACCC CAACTGAAG AAATGCCAG CCCAGCCAAA
CCCAATTGC TAACTTGTAT TATAAGCAAG TACAATGGTC CTACCTTAA GCCACTAAGT TTTGGGATGC TTTGTTACAC
AGCTATAGAT AAGCTGATAC AGGGAATGTC AGAWTCCATG ATGAGAGACC GAGCCTTTCA KTCGTGTCAGA GGYACCTTVG
GTTGGCAAAA CTCAAAAAG AGGGACCT

SEQ ID NO:17: (Length of Sequence = 415 Nucleotides)

AGCAYGGGCT GGGGGGCCG GAGTTAGGCG TGGGGCTTGT TTTAGCTCT GCCCCCACA CCCCCTCTC TTCCGTCTG
ATTAAGCCCA AGGGTTGGTG GACTTAACIT TCAGCCCATC TCTAAGGGTT TCACAGACTG GATCTTTCTA AACTTTATTG
GGTACCTGCT TCCCCTTTTC CCTGGTAGTT TTCATCTACA AAAAGTCAA ACCTGATCGA AATAGAAATA AGATCATCAA
ATTGGACCAT TCTCTAGCG TTCGAGTGT CCGGCCAGAC TGSCATTGAG TACAGCTGA GATCCAAJCA CATCACACTG
GCCTCAGGTC ACCAACTCGC CACTCAGGCG ACAAGGCCTG CCTGTGTTGT CACAAGGCTT TCCTTAATGT CGTCGGTGCC
CAGGTGAACC ACAAG

SEQ ID NO:18: (Length of Sequence = 356 Nucleotides)

GTATGTATGT CTGTAGGTAT TTCTATACTT AACCATCTGT GTCCCAATTA AGCTAAACAT GATTCAATTCT GATGCCAACC
CCCATCCATC ATGCCATGGA TCGCTCTAGA CTCTTCCCT TGTAACTCC CACTCAAACA GTGAGAAACC TTTGCCAGT
ATGTTTGGGA GTAACTCAC TGGGAGTTTG CAGTCCACT AGATGAATGC CAACCCATTT GTTCATTAA AAGGACTTTT
GGAACCATAG AGCAATGGCT GGGCTGGGTC TVGCACGTT ATCTTGACTG AAACAATTGG CCATGAAGGC ACTTGCCAAG
GAAACTCTAG GGGCCACAAG GGTCTGGGT GCTTGC

SEQ ID NO:19: (Length of Sequence = 339 Nucleotides)

CATGCTTCCA TTTTTTTTAT TTTTAAACCA CCAAACCAAT ATTTTYCCTT TAAATTTTAA TCTTATAATA TAGAAATCTT
ATGTAAATGA AATTTTGTCA TGTTCAAAT AAAGAGAACT GAAGTAGAAA ATAGAAATGC CAGTAAACAA CATAATGTTT
AATTTACAAC TTACATTAGG GGTTTGGGGG VATGCTAATT ATATATTGAG AATATACATT AGAACTCTTC AAAATGGGCT
CTTCTAATGA GGTCACTACT GAACATAATT GTTCCCTCTT CTGTTAAATA GAATAGGTTT AAATGACTAG TCCAAATGGA
ATTATTGCCT TCTKGTTAA

SEQ ID NO:20: (Length of Sequence = 437 Nucleotides)

AGAACAAGGG AACTCAGCAG CCCCTCCCTT CCATCAGCT GTTCCTGAGA GATGCAATAT AGTAGTCATC GACATCATCC
TTATCAACAG CATCATCACT CAGACAGTGG TGAAAGTCTT TCTTCACAAG GAAAAACAAA GATAAAGAAA TACATGAGCA
TTAATCAGAA ATTTTCAAAG CTGGGATTCT AATGATATGC ATTATCATTA GACATTCAAA TGCTATACAT CTTCTGATGA
AGCCTCCTTG ACAGCAGCTA CACTTATTTT ACATTAGAAT GCCTAGAGAA ATCCTGACTG CCCAGCTTGG TCATGGGACC
TTCCCCACTC TCCTCTTGGA GGAATGAAAA GATGTGGCGG CTTTCTACTT TTGCTACTGA GCTGGGGTAT ATGGCTAGGT
CCACTTTCTA AGGGGCTTGG AAGGGTTATT CCATCTG

SEQ ID NO:21: (Length of Sequence = 385 Nucleotides)

GTTTGATTG CTTTTTTTTT AGAGTTTAC ATCAGTGTTT TTCAGGAATA TTGGTCTTTC ATTTTCTTTT CTGGGAATAT
TTTCTAGTTT TACTTTGTCA GAGTAAATTC TGGCTTCACA GAATTATTTG TAGTCTCTCC TGCTCTGGTT TATTGATGCT
GCTATAACAA AATACCACAG ACAAGGTGGT AATAAATAAC ACAAATTTAT TTTTCCCACT TCTGGAGGCT AGGAGTTCAA
GAAGCTGGCA AGTTCAATGT CTGGTGAGAC CCATTCCCTC ATAGGTGGCA CCATCTAGGG GTCCCTTACAT GRCAAAGAGA
TGGAAGGGCC AAAAAGATGG TGACCTATTG TGAGGCTTTT TTTAAAGGGC CTTVAATCC CAGTC

SEQ ID NO:22: (Length of Sequence = 374 Nucleotides)

ACCTTCATGG TCATGAAGGC CATGCAGTCT CTCAAGTCCC GAGGCTACGT GAAGGAACAG TTTGCCTGGA GACATTTCTA
CTGGTACCTT ACCAATGAGG GTATCCAGTA TCTCCGIGAT TACCTTCATC TGCCCCCGGA GATTGTGCCT GCCACCCTAC
GCCGTAGCCG TCCAGAGACT GGCAGGCCCTC GGCCTAAAGG TCTGGGAGGG TGAGCGACCT GCGAGACTCA CAAGAGGGGA
AGCTGACAAG AGATACCTAC AAGACGGGAG TRCCTGTGCC ACCTGGTGCC GACAAGAAAG CCGAGGCTTG GGTCTGGGTC
AGCAACCGAA TTCCAGTTTA GAGGCGGATT TVGGTGTGKG ACGGTGTGAC CCAC

SEQ ID NO:23: (Length of Sequence = 322 Nucleotides)

CAAAACGTGA TCACCACAGC TCCGTTCCCTG CAGTGACACT TAACATACTC AGCATCTTCA TGAATTCTGA ATAATTTACT
GATCGTAAAG TCTAAAAGTA TCAATTCAG GTGAGCAGTT TTAAATCAGA AAATAGTCAA TAGTTAATCA TGACTCTTCA
GGGTATTTCC TTCAGTCTCT CTGAAGAGTT TCCAGAACAA TTCTTGTAAG AAGGAATGCC TCCCAACAAT GGAGAGCAAC
AATAGCAACA GGCATCTGAA TCAGCCTGGC CTCGAAAAC AGACCANAGA GGAGTTTATC TGTTTCTTCC AGTGAGGAA
GG

SEQ ID NO:24: (Length of Sequence = 113 Nucleotides)

CCTGAAATCG GAGTCTTTTG GACTGACTCC AAATTCAATG GGTGGCACAG GCAGCACGGA GTCCAGTGA ATCTCCACCC
CGTTAACAGG CGGGACGACA GCCCCTTGCA GCC

SEQ ID NO:25: (Length of Sequence = 399 Nucleotides)

GGAAAGAATG AAGGAAAAAC AAGACAAAT CTACTTCATG GCTGGGTCCA GCAGAAAAGA GCAGACGCTG GCCTCAGACA
CAGACAGCAG TCTTGATGCC TCGACGGGAC CCCTTGAAGG CTGTGATGA TAGGTTAGAA ATAGCAAACC TGTGAGCATT
GAAGGAATC TCACCTCCGT GGGCCTGAAA TGCTTGGGAG TTGATGGAAC CAAATAGAAA AACTCCATGT TCTGCATGTA
AGAAACACAA TGCCTTGCCC TACTCAGACC TGATAGGATT GCCTGCTTAG ATGATAAAT GAGGCAGAA ATGTCTTGAA
GAAAAAANTT GCAAGCCACA CTCTNGAGA TTTTGTTCAA GATCCATTTT AGGGTGAGCA GTTAGAGTAG GTTGAATTT

SEQ ID NO:26: (Length of Sequence = 355 Nucleotides)

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GATTGGTATA CGGGCAACAA TGGATTGATA GCGTTAATAT AGAAATAGTT CCAGCAGGCC AGATGCAGTG GCTCAATTCT
 GTAAACCCAG TGCTCTGCAC AGCTAGGAAG GAAGATCACT TGGGCCCAGG AGTTCAAGGC TCCAGTGAGC CATGATCAGC
 CCCTKCCTC CAGCCTGGGT GACAGAGTNA GGCCCTGTCT CTAAAAAATG AAATAGCTCC ATCAAGTCAA TAATTAAAAA
 TTCAACAGCC CAACAGANCA AAAATTGTAA ATGANCACAA ATTAGAAAAT GTACAAATTA AATATTAAATG ACCCATAACC
 CTATAAGGGA AAGTTTAACC TCTCTAGTAT TTTTT

SEQ ID NO:27: (Length of Sequence = 322 Nucleotides)

AAAACGTGAT CACCACAGCT CCGTTCCTGC AGTGACACTT AACATACTCA GCATCTTCAT GAATTCTGAA TAATTTACTG
 ATCGTAAAGT CTAAAAGTAT CAATTTTCAAG TGAGCAGTTT TAAATCAGAA AATAGTCAAT AGTTAATCAT GACTCTTCAG
 GGTATTTCTT TCACGTCCTC TGAAGAGTTT CCCAGAACAT TCTTGTAAGG AGGAATGCCT CCCAACAATG GAGGAGCAAC
 AATAGCAACA GGCATCTGAA TCAGCCTGGG CTTGAAAAC AGACCAAAGA GNGTTTTTTC TGCTTTCTTC CAGTGAGGAA
 GG

SEQ ID NO:28: (Length of Sequence = 287 Nucleotides)

TATTTTATT AAAGGACCAC CTTGGCTGTM GTGAGATGAA TGGATTCAAA CAGGGCAAGA GTGGATACAG MGAGATAAGT
 TAGGAAGCTG GTATAGAAAT CTGGATGAGA TATGGTGGCT TGGATGATAC TAGCAGTGAG TATGGGAAGT AGGTGGATTA
 CTTTACACTT TTTTATGATCA GTCTATTCTT GATGCTCTGA AGACAAATTA ATCTCATATA TAACTCTAAA CAACATATTT
 ATATTTTCATG TAAATAAGGA TAATGCTGAC CAAATATTAG CACCTTT

SEQ ID NO:29: (Length of Sequence = 282 Nucleotides)

CAGGGCAGGG AAGCCTGGAA GCAAAGGAGG ACCTGGCTCC TGACTCTCAG AGAGGATAGG CTGGGATCCC TGGGGCAGGC
 CTGTTCTCTG GCTGGCCAAT TTAGTCTTTC AATTGTCTAA GGGCTCTCCA TTGCCTGCCC TTGCCTCTTT CTAGCCTGTT
 ATTTCTAGGC TCCTCTGAAT AAATCTCAGG TTCTCTACTG TCATGCCCTT AGTTCAAAAA TGAGAATCTG CCTACAGTG
 CTGGCCTCCT TCCGGCCTGA AAGCCAGCAC CTTKCGACCC GG

SEQ ID NO:30: (Length of Sequence = 345 Nucleotides)

GAAGCTGGTG AATACATTTT AAGACACAAC ATGGCACCTG TGTCTAGCTC TATGGTACAA CATGGTACTA TGACACATAT
 AATGGGTTGC CAGATGGGGA AGGCAGCTTC TCTGCAACTG AGCTGAGATC TCAAAATAGA CAATGTCAAG ATGGAATGAG
 AAGGGAAAAA CAGCATGTGT AGACAGGTAG TGACAAAAGG CTAATTAAGG ACTGAAAGAA ACCAGTGGCC AACAAAGGAA
 TCTACGGGTG ATAAAGATAA GACGGTGAGA GAGATAAGGC TAGATTGTAT AAGGCTTGAC AGACCATAGC AAGATAAGCA
 AGGACCTGTG TCTGTGTAAC CATT

SEQ ID NO:31: (Length of Sequence = 343 Nucleotides)

ATAAAATTGG TCTGGGTACC CTAAGGTGTT TGCTTGATA GAAAATTGAC ACCCCAAACT AAGTGTCTA CTTAGCTTCT
 ACAATAGTTA TTCCTAGACC TTAGATTAGT CATTACATTT TTATTTAAGG TACTATGTTA CTTTCATGAC TACAAAATGA
 GGCACCTGTA CAAAACAGGA ATGAAAACAT ACATATACTG TCTGTCTTTT ATGTCGTATT AATGCCAAG ATATTGTCAG
 GGATTATTTT AAAGAAGCCC TTAGTCAAGA TGGCTATTTT TAAAAATGGC ACAGGACAGT AACAGGCTGA AAAGAAACAC
 CTGGTTTGAG GGGCCAAATT AAG

SEQ ID NO:32: (Length of Sequence = 153 Nucleotides)

117

ACAGGATGGT CAGGACAAGC CACCTCTGGT AAAGTGACAT TTGAGANGAC CCCTGAAGGN GGGGGTTGA GTCATGTGGA
CATCTTGAGG AAGAGTTTAC TGGCACAGGG AACTGCAAGG KCAAAGTCCC CAAGTACTAG GGCTGGGGGC AGT

SEQ ID NO:33: (Length of Sequence = 257 Nucleotides)

TCAGTCAGCT TATCGCAGGT GCAGCCAAAC ACAAAGCTTC AGGACAAATT GTACAAACTT TACAATGTGG GATTTAAATT
TAAAATATGA TACATAAAAA TCTACACAAA ACTGATAAAA ATCAAGCACA GNTACCAGGA TTGAAACTTA TAATAATCCA
TGTTGIGAAAG GGAGTCTTGT TTCTTTTCAA GTGCTTTTAT TCTGCTATGG AACAGTCAAA ATGGAAGNTG TAAAGCTTTG
TGGTTAGTTT AAATTAT

SEQ ID NO:34: (Length of Sequence = 307 Nucleotides)

CTCCACCCCA TATCTAATCC AACAAAGTCCA GCTGCCTCTC TCINAAMAAT ACCNARGATC AGGCCCTTC TCAGCACCCC
CACAGCTGCT GCCCAAAGG AAGCCACGTC ATCTCTCAG GAGATTGTC AGCAGCCACT GCCTCCTTGT CACCTTCGCC
TGTTGGTCAIT CTCCCCACAT GGCCAGGGAA TGGTCTGT TAAAGTCTGC TAGGTCACGG TCCTTCCTAC TCAAAATGCT
CCCTTGGCTC CCACTGCCCC CAGAGTAAAA AGCCAGACC TTCAAATGAC ACAAAGGCCT ACAACGA

SEQ ID NO:35: (Length of Sequence = 266 Nucleotides)

TCCACAGGTC ATCAGATRCC TGCTINGATAA TATATAACA GTAAAAACAA CTTTCACTTC TTCCTATNT AATCGTGTGC
CATGGATCTG ATCTGTACCA TGACCTTACA TAAGGCTGGA TGGACCTCAG GCTGAGGGCC CAATGTATGT KTGCGTGTGG
GTGTGGTTGG GAGTGTGTCT GCKGAGTAAG AACACGNTTT TCAAGATTCT AAAGCTCAAT TMAAGTGGCA CATTAAATAT
AAACTCAGAT CTGNTCAAAA GTCCGG

SEQ ID NO:36: (Length of Sequence = 388 Nucleotides)

CAGCTTTGGA AAGACTTTGA CCTCTGAACA AAAAGCCAGA AGGCTGCTTA AAGAAATAGT AAGGGTTTCA CTTGCCCTGG
ATAGTCACAA ATCTAGGAGT ACTGGTTCAC TGCTTGGGT TACCAGGTAT CAGCTCTTC ACAATCTCTC CTCTTCCCAT
GCCTCCCTTT AAAGTCCAGT TGACAAATGA AAAAGAAAAA AAGGCCTTGA TTTATAGTAT TGCCAAACAA CCTCATAAGA
ATGGGTAAAA TTACATACAC ACATACATAG AGAAGGGAGG TAATGCTGTG AATCTACTTG AGCTGGATTG CATGCTCCCT
AGGGACCACG GTGCCCAACC TGTAATTTTA TTCTAACTT TTATAAATAT ACTCTTTTT CACGGATG

SEQ ID NO:37: (Length of Sequence = 342 Nucleotides)

GAATGTCTAC ACAAGGAAGT ACAGGATTTG GCTTTTCTAG ATGTCATATC CAAACTTCGC AGTCATGAGA ACAAAGTGT
TGCCACAGCAG GCCTCTCTCA CAGAGCAGAG ACTTACTGTG GAAAGCTGAG AACTGCCCGA TACACGGCAT CATCCCATCT
CTAATTTCCC CTCTGTCTC CATCCAGCGG CTCTTCCGC TTCATTCTCT ACCATAACCAC TTGTGCATGC ATGTRATGTT
CTAATACCAA TTGAAGAACC GCTGTAGGTA CCTCCCTAAT AAGGATTCT AAACCTATAG TTAGTGTGAT CATGACTTTG
GTCAAAGGCA AGTYTCCCAC CC

SEQ ID NO:38: (Length of Sequence = 355 Nucleotides)

GATGACTTGG AGAATGCCGA AGAGGAAGGC CAGGAGAATG TCGAGATCCT CCCCTCTGGG GAGCGACCGC AGCCAACCG
AAGCGAATCA CCACACCATA CATGACCAAG TACGAGCGAG CCCGCGTCT GGGCACCCGA GCGCTCCAGA TTGCGATGTG
TGCCCCGTGTG ATGGTGGAGC TGGAGGGGGA GACAGATCCT CTGCTCATTG CCATGAAGGA ACTCAAGGCC CGAAAGATCC
CCATCATCAT TCGCCGTTAC CTGCCAGATG GGAGCTATGA AGACTGGGGG GGTGACGAG CTCATCATCA CCGACTTGAG
CTGGAGTCAT CTTTCTGTC CTTTGCCCCA TGCCC

SEQ ID NO:39: (Length of Sequence = 303 Nucleotides)

GCCAAAAACA NYTCTGAACC CGTTTIGGGA AATAATGGGA TTCCTTGATC ACGGGACAAC GAATCACCCCT GAAGTTTTTC
 TCCAGTTTAC TCAGTCACAT AAGCCACCAG AGGCTAACCA CACTGACAAC AAAAGCAAGT CCCAGGATTG CGGGGGCTAA
 TACCATGCTA GGCATTACTT GGGAAATTAT GAGTTGGTAT ACATCTGTGA ATTTGGTGGG AGGAGAAAAC TAACAGTAA
 TTTATCAAAG CCAGTGGTAC GTTCAGCGTT ATAAAAATTA CAAGGATCTG CTTCTCGGCG ACT

SEQ ID NO:40: (Length of Sequence = 178 Nucleotides)

GGTGTGGGG GCTAGAGATA CACATGCCAG TNCATACAT TTCTCAGCAC TGTCGTGTG ATTCACAGCA GTTCAATTGT
 TCATGCGATA TAAGCCAGTC ATGTGGCCCA AGTTATTCTG TCGGCTGTGT TCTCTGCAGG AATCTGATGC AAGAAGGCCT
 GAAGGATGCA TGGCTTTT

SEQ ID NO:41: (Length of Sequence = 322 Nucleotides)

TGCCTTTCTT TAGAAATTTA GGGCAGTGTG ATGCTTCCAG AGGCTGTGAC AAACACCAGC TTTCATTGTG CTGGGAGTT
 TCCATGCCCTC TYCCTTCTCT TCGCTTAGTG CAGGTTTCTG CTTTTATCA GTTTGACTGC CTGAGACTGA KTCCAACAAC
 CCAAAGTGAA CGCTCAGCTC CTCCTTTTCA AAGGAGGATG ACTTNTCTNA ACAACTATTT AGGTGAATTG TTKKACAGT
 TTATTAAAGC AATGGCTCTA AACAAATTCC ACTGGGGGTG ACAAAGTACA ATACAAAAGG CGTACTCTGA GGGCTTGGGG
 GT

SEQ ID NO:42: (Length of Sequence = 278 Nucleotides)

AAACTTTGGC ATTTTATTTC AGACACGTAT AAAACAAAA CAAAAACTT CAGTGATACA ACAGACGTTT TCCCTTAGTT
 CCCCATCCAA GGGGACAGAG GTGTGCAGCT GAAGCTGGAY CTTTTTCTG TCCTACCTGG AAGCTGTCTC ACTGCTGGAT
 GAGAATGGCT TCTAAAAGTG GATCTTGGGG ATCCTTGTA ATTTGCCCTC GGATAAGGAG TGAAGWTCAT TTACGGCACA
 TGTGGATTAT GGTTTACACA AAGATGTCCA GTTATTTT

SEQ ID NO:43: (Length of Sequence = 225 Nucleotides)

AGATCAAAAG ATGAGAGAAG CTGAAACAGA ACCGCATGAG GGAAAGAGGA AAGTGGAAATC TCTGTGGCCC ATCTTCAGGA
 TCCACCACCA GAAAACCGT TACATCTTCG CCTCTTTTAC AAGCGGAAAG CCAGCAGCAG GATCTCTAGG AATATTAGTA
 TTAAAGAAGG CTATGCAGCA TAAACCTGAT TTCAAATGG TAAAGCAAG GTTATGTGTA CTTGT

SEQ ID NO:45: (Length of Sequence = 305 Nucleotides)

GGATTGCCAG GAGCTGTTCC AGGTTGGGGA GAGGCAGAGT GGACTATTTG AAATCCAGCC TCAGGGGTCT CCGCCATTTT
 TGGTGAAGTG CAAGATGACC TCAGATGGAG GCTGGACAGT AATTCAGAGG CGCCACGATG GCTCAGTGA CTCAACCGG
 CCTKGGTAG CCTACAAGGC GGTGGTTTGT GGGGATCCCC ACGGCGAGTT CTGGCTTGGG TCTTGGAGAA AGGKGCATAG
 CATCACGGGG GGACCGGAAC AGCCGCTGTG CCGTGCAAMC TGCGGGGACT GGGATGGGCA AACGC

SEQ ID NO:46: (Length of Sequence = 264 Nucleotides)

ATGAAATAGC ATATCTINNGC CTAATTAAAA GATTCCATTA CATTTACTTT TATCATTTAT ACTGCCAAGG ATCAGTCACA
 AAAAATTCAA ATTATACATA TTATTATGTC TTTAATTICA TAAATAAGTA AATTAAAGCA AGCCAATATG TCTCTCTTCA
 TAACATAGGG AAAAATTACT GTTTAGCATA ACAGNGTAAT AGGCAAAGTC TAGCCATACA GCAGCAGTTC ACGGTGTGTG
 CAAGTTGGKA CAGGTTCCAT CGAT

SEQ ID NO:47: (Length of Sequence = 175 Nucleotides)

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GATCTCTTCC AGCGTCAATG TACTGGGACA GCAAACACTC ACATTTGAAG TTCCTTCTGG CCACCGGCTT CCCAGTACAT
TGACGCTGGA AGAGATCATC TCAAATGGTT CTCCAGTGTC AGGCTGGAGA TCTCCAGAAA TGGAGTCTAC TCCTGGGGTG
GCTTGTATGG GAGCC

SEQ ID NO:48: (Length of Sequence = 270 Nucleotides)

GTCTGTGAGA GCNACCGGC AGCTCAMRCC CACAGCGGCT CCTCATCCTC TGTGGTGGCA TCCTCATTCC ACTCTCATCT
GCCACCTKCT CAGGCGGGCC TCTAGCTTTC TCATGTACTC TAGCAATTCC TGTTCCTCCT GCTGTAACTG CTCTTTTCC
TCTGGAGCA CACGCAGGC TGACCGCAGC TGTGTGAGCT TCCGCTTACT TMTGACAAC TGTACCAGGC TAGAATCCTT
TCTGCCTGGG TCAGCTTCAG TCTTTGAACA

SEQ ID NO:49: (Length of Sequence = 359 Nucleotides)

CCCTGAAGAG TGGGTGGGAC AACCAGATGG GTGTAACCCC TGTGGGGGA AAAGGAGTGA GTTACTTGG TAAAATAATA
ATGGTAATGT CAGCAGCGTG GCTGGGGGAC TCAGTATGGT CCCGGGAAA GAGTTGGGGC AGTGAACCTC CCAGGCCGAC
TGGCCTTGGG CTGGCAGCAG GGAGGCTGCA GGGCGCCTAC CTMCTCTGCC ACGTCCCTGC CTAGGAAACC TATCCCAGGA
CACCCTGCTT TGGCCTGGAT AGCAGCCTAG GGATGAGCAT TTCCTTGAAA GCAATTAGGT TATTCACCTG GTATTAAAC
TATTACTGT TAAAAAATCT GTGACTTCAT GGAGTGGG

SEQ ID NO:50: (Length of Sequence = 271 Nucleotides)

CCAGGAAGGA CAGGAAGTGT CCTCTAATAC GCATAAGATC CAGTACAGGA GAGATGGGAA GAGAGKCTCC AGGATGAAGG
GGAAAARAGG CGCATGCCA GTCACCTGGC ATCTNCCAGA GAGGGYAGY CTNCCACTG AGACTGGGC ACGAGTCCCG
TCATCACCAT GCCCTCTGAC TGTCGAACCTG TCTTTTTACC TGACAAATAC TACACAGGTA TCGMTCGTGG CCATACTCTG
CTATCTAAAC CCAGGAACCTG ATTAGATTGT T

SEQ ID NO:51: (Length of Sequence = 226 Nucleotides)

CTCCAAGCAG TAAAGACTTG CAAAGCATTG CATTTTGATT AAACCTTGCT GGGCTGAAGG GCAGGCAGAG CTGTGGTGGG
CACTGGCAGG ACGCAGCACC CCCGACTGG CCTTGGCAG GCTGCACCG GCGCATGCGG GTGTGGGCCA GGGTTCCTTT
AGGAAGCAGG TGGGAGTCTK NCAGTGCAG KCGGTCCAGG AGRFYACCAK GCGTGGCAGG GCACTG

SEQ ID NO:52: (Length of Sequence = 408 Nucleotides)

GGTGGGGCAA GGTGGGGGTG AAGTGCACTC CTGCTGCATG AGTGGCAGGG CAGGGTGCAC ACACACACGT GGGTCTGGC
TGGGTGAGGC AAGCAAAACC TGCTGCACA TGGCAAAGG ATGTGGGAAG TATCCATGGG CNCCAGGGGA AGCTGCAGTT
TGGGGAGGGA ATGGGTGGCA CTGCTGCGTG TCTGTGGGGG CCACCCACT GGGGTCTCC AAGTGGTCAA GTTCCGTCTG
CCAGGTTAGA AGCTATGATG GGGGCTTCTA GGACACTNGA GGCTGACCTG AAAGCAAGGT ACTTTTCACA CTGGGACCCT
GCAAGAGGCC AACAAAGATTA AGGGATGCTT CAGGTACAGC TTGGCCCTCT TCTTATGGGG CAAGACCTTC CCGCAGAGT
TCAGATCT

SEQ ID NO:53: (Length of Sequence = 314 Nucleotides)

TTCTGTGAG GAGGACCACA TGGCAGTCCA GCAGACTGCA CATTTTAA AACTAGGTCT TCCAGGTAG TTTGAGGAGC
ACCAGGGCAC ACTCAGGGAA GGGACATGTC AGTGTCTGAG AGCTACGGG AGGAAGGTGT AGTGACAACA TGGACCATGG
TGGAGTGAAT TTAGACGGCT CTGGGGTINAG GAGAATCATC ATGTAAACAA GCATTAAATC ATTTGGAGAA ATTCAAGAAA
NCTGTAGATG TACATTCTAG CCCACTTACC AGGCCTACTA AACGTCAATC AGATATATTT CAATTGAAT TCGG

SEQ ID NO:54: (Length of Sequence = 310 Nucleotides)

AAGCCACCGC ACCTGGCCCA TTACATTTAT AATGTTATAA GGGGGTTGAG GGGTGTGCTCA CTGGAGCAGT GGTTCCTCAA
 CTCGTGTATG CATAGGAATT ACCTGAAGGG CTTGTTAAAA CACAACTGC AGGGCCACC CCCAGAGTTT CTGGTTGGGG
 AGGTGTGGGC TGGGCTTGAG GATGTGAATC TCTCACAAGC TCCCAGGTGA GGCTGCTGGT CTGTGGACCC ACTTCAAAGA
 CCCAGTGAAT CAGAAGAGTC AGTGAGACTG GACAAATGAA CGCAAGACAG TCTTCAAAGG AGACCAGAGG

SEQ ID NO:55: (Length of Sequence = 252 Nucleotides)

TTTTTTTTTT TYCCGGGGAR GTCAAACATA CTTTTTCAAC ATAGGATKTC TGACAGGAGG CCCTTGGMCA GGGTTCCTTG
 ACCTCTGYTT CAAACCCAC TGGAAACAGA GCAAAGTCAT CAMGAAAACC CAGGACACCA GGGCAGGGG GCTGCACAAG
 GTCGGGTAGG TCACAGTGGG CCAGCACACA GTGGCCCCGC CCAGGTCCAG CCCAGCCTGG GGGAGGGTGT GAGGGTTCCA
 KGCAAGCTCA TT

SEQ ID NO:56: (Length of Sequence = 188 Nucleotides)

GTCAAGTCTA CCATCATTCT AGAAGGAAAA GGCATGGTGG GAATTCAGCA CCTGAACCTG TATTTACACC AGCCTCGGCA
 TCTGGCAAGG RAATAGCGAT TGTTCATAGT GATGCAGAGA GAGAACAGGA GGAKGAAGAA CAAATACACA CAAACAACCTG
 ATCTAGGGAG ACTCCAARGA TCCAACAG

SEQ ID NO:57: (Length of Sequence = 304 Nucleotides)

AATCAGCCTG CAAGCAAAAG ATAGGAATAT TCACCTACAG TGGGCACCTC CTTGAAGAAG CTGATAGCTT TTACACAGTA
 TTAGATTGAA ATAATGGACA GAAACACATT CTTGTCAAGA AAGGGGGAGA GAAGTCTGTT TGCAAGTTTC AAAGCAAAAA
 GCAAAAGTGA AATGATTTGA GGATTTCTGT TCTAATTGGA GATGATTCCT TGGTGTGTTAG AAATGGCAA TATTGATGAT
 TGTGTGCTAT TGATTGGTGC AGGATACTTG GTATAAGAGT AAATACITGA GACTGTGTCT ACTT

SEQ ID NO:58: (Length of Sequence = 261 Nucleotides)

CCAGAAGCTT CTGCTTCT CTGTCTCTC AGTGGTTCCC TTCCCTGAAG TGCCCTCCCTT CTCATTAATT ATAGCCTGTG
 TCTGAACATT GTGAGCTATA AGAACCTCA TATTAATGGT TAAGGGACTG TTGGAAATGA TGTGATTTTA TAAAAATGG
 GGTCTTTGTG GAGGAGTCAG GAATGGTCAA AATGAGCTTC AGGTATGGGG CTTGCTCTRT GCTCTGATA CCAAGGGTCT
 GGCAAGCACA AAGGAAGGTG G

SEQ ID NO:59: (Length of Sequence = 470 Nucleotides)

AATACGTATT CTGAAGCCAC TATATCTGCA TATGTATCCC AGATTTGAAC AATTAAGTAA AAAGATGGTG AATGATGAAA
 GCCAGTTTTC TGTCTGTAGA AGTGAGAGGT GACAGATAAC CAAAGGAAGA AGGCTAGAAT GGATAGAGGA CAGTGCTTAA
 GTGTAGTTCC TGTTCCTTT AGTCTTATAG ACTTCATTTT CAAAGTTTCT TAGCACCCCTT CTCCCCCTT TGGTGAGGTT
 GTTTCACATA TTTTCTAGAC AATTAGATTC TTTTGTCAA GTCTGTGTT CATCCGAGA GCCTCTGATC TCTTAAATGA
 TTTTAAAT TTACATACAT TAAGGTTTAC TCTGCTGTAA AGGTCTGTGG GTTTTAAATCC TGTCTCACAG TTTTGCATA
 TGTGCGCTT CTGCTGGGA ATACTCTCCC AGATATTCCC CATGACTGGC CCCTTATCTT CAATCAGATC

SEQ ID NO:60: (Length of Sequence = 466 Nucleotides)

GTGTTTCAAG GGAAGGCAAC TMCAAGTTTG TGCACTGAA TTTCTGTAAA GTTAAGACAG ACTCAMCTTC TCATTCAATC
 TGGGGCAGTG GATAACCTTT CTGAATAGAC CCACTTGTTT ACGGACAGG ATAGAGGTT GCCTTCTTC TTTCTTGAA
 TTTGGAGTGA GCACTAGGGA GGGGAAGTGC ATGGGTGACA TGAAGAAGGT GAAGATGTAG TAAAAGCATC ATCCAGGTAC
 ACATTAACGG TGCTGCAGAA TTTTACAAT ACAACTGAGG GAGTCTGTAG TGGCAAAGC AATTACTGAG CACAAAAGCC

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AGTCTCAAG GGCTGATTCC ACCTTCCCTG TCCAGGGACT TTCTCAGCAA ACTTTGTTCA TGAGCAGTTG TTOGCTTTGA
TGGTCTTAGC CAGTTTTTGG TGCAGGGGTG TTCCTCTGGT ACTAGGGCTA GGGCAGCTGT TTAAAG

SEQ ID NO:61: (Length of Sequence = 491 Nucleotides)

GACACCCCTC CTGCCATGAA GAATGCCACT AGCTCTAAGC AGCTCCCACT GGAACCAAG AGCCCTCAG GGCAGGTGG
GCCTAGGCCA GGGGGGGCG AGGAAGAGTC CCTTCTCTCT GAAGCAAAGA GCAGAGGACC CACCCACCA GCCATGGGCC
CACGGGATGC CAGACCTCCT CGAAGGAGCA GCCAGCCATC TCCAACAGCA GTGCCAGCCT CCGACAGCCC TCCCACCAAG
CAAGAGGTGA AGAAGGCAGG AGAGAGACAC AAGCTGGCAA AGGAGCGCG AGAAGAGCGT GCCAAGTACC TGGCGGCCAA
GGAAGGCAGT GTGGCTGGGA AGGAGGAGAA AGGCCAAGGT GCTGCGGGAG GAAGCAAGCT CCATGGAGCG CCGCTGCCGG
TTTTAGGGAG CAAACGTCTT AAAGCCGAGC AACGCCGTTT AAGCCTTGA GGAACGGCTA GCGGAAGAAG TTTGTGAAA
ACAAGGGGCG T

SEQ ID NO:62: (Length of Sequence = 478 Nucleotides)

ATCATTGAGT ACGCAGAGCT CAAAACAGAC GTGTTCCAGA GCCTGAGGGA AGTGGGCAAT GCATCCTCTT CTGCCTCCTC
ATAGAGCAAG CTCTGTCTCA GGAGGAGGTC TCGATTTCG TCCATGCCGA CCTTCCAAA ACATCTTGCC TAGAGTCTAC
ATCAAAGAGG GGGAGCGCCT GGAGGTCCGG ATGAAACGTC TGGAAGCCAA GTATGCCCCG CTCCACCTGG TCCCTCTGAT
CGAGCGGCTG GGGACCTCA GCAAATCGCC ATTGCTCGCG AGGGTGACCT CCGACCAAG GAGCGGCTGT CTGTGGCTGT
CCATGTTTGA GGTATCCTG ACCCGATTG GAGCTACCTT CAGGACCCAT CTGGCGGGC CACCGCCACC AATGCGTATG
ACGTCGATGA GTTTTTGAGT TCACTGCTGT GAGCGCATGA GTGCTTACT GAATCCTGTG GACAACGGTT AAGTTACA

SEQ ID NO:63: (Length of Sequence = 183 Nucleotides)

CCTGGAAAGT GGGGGTGGC CAGGGGGCCA GGCCAGCAT GCACCCCAT TTTTGTGGG GCTGATCCCT GCCCCAGCTC
TGCTGATACC CGGGGCCACA GCGTCAGGCC GTTGGGGTG GAGKTAGAGG TGGGAGAGCA GGGGAGAGAG CCTKAGGAGC
CACAATTGGG CAGACAGAAG CGG

SEQ ID NO:64: (Length of Sequence = 316 Nucleotides)

GGATATTGCA CCTTACAGAC TTAGGGAGCC TTTACCAGAG ACGCTTAAA CGCCCCAGGT TCAGCCATTG TGCTGAATAG
AGTGGAAATAT AGAACCAGGG ACAGAGTATT TCATTTAACG TTGATATATA CTGCTAAGG AAACACTAAC AATACTGTAA
CTTTGTATAA GGACATAGTA TTGAAATGGG AAATAGAGGT CAGGCTCACA TCATCTTAGT TTAATGCTGG GCACTTTTT
CTGATTCTG TAGTCCCTG GAAAATGTGT CCTTCGTACC CATAAAGTGG TACAAATGCA TTTGTAACCA TTTTGT

SEQ ID NO:66: (Length of Sequence = 411 Nucleotides)

ATCTGGTCTA GAGAGGCGAC TCCAAGCTCT CTGCTGGCT CCCAGCTGTG GGAATCCTTT AGGCTTGTTC TCAACCTACA
CGTTAAAAAT GCTTCTTGGT GTGTTTGGG AGGGGAGAG GGAACTGAG CTCTCTCTG ACCTCTCCA ACACCTTGA
CTTGCTTACC CAGCCATTTT CAGTAGCTAC ACGGTGGTC ACAGAACTT GGGCGGCACT CCGCACACAA CACAGAACCG
GGGCACTCCA TGCAGGTGCG GGAACACATG TCGGACCCAG GGAGCAAGGA ACACGCCACC CCGAGGAACA TGCAAACGGA
GGAAGGATTCT CCTTCAGATT CCAAGGATGC CACAACCCCG ACGGGCGGCT TAGGGAGGCA CCGATTATCT AAGGAAAAG
GCCACTGTTT G

SEQ ID NO:67: (Length of Sequence = 413 Nucleotides)

CTGCTCCTTA TGTTTTTATT TCCAAAGTTT AGAATTTCTT TGCTTCATAG TATTATTTTA TTTTACTAAA TTACAGAGTA
AGAAAAGCTT TTCATTTTAT CTGATTTTAT TCTTAGAACA AAAATATTAC GATCTCTAT ATTTTGTTC TTTTGCCAAA

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AAGTGTAGGC AATTTTACAT CATCTTTTTT CCCAATCAGT TTGTGATCCA ACTATAAAAA GGAGACATAG AATACTGAAT
 AAATGAAACA GAAACTCCAA GGCCAAGAAG TGTCATCTT GAAAGAGTGT TAGTGGCAAG ATATGTGACT GCAGACTAGA
 TGTAGACAAA CCTGAGAAAA ACCAAGCATG GGGGAAAGGA TYCCTATTTT AATAAATGGT GCTGGGGAAA ACTGGCTAGC
 CATATGTACT TTA

SEQ ID NO:68: (Length of Sequence = 372 Nucleotides)

GCACGGTTAA AAGACCAACG TGTGTGNTC AAATATAAAG GCCACACCTT TCAGACCGAA CCTACTCAAA GATCCTTTAC
 TTTGCAATAA TTTGAAGTGG AGAACCAGAG ACGGGAGACG AATGAAAGCA AAGATGCTCA AAGAACCAAA GGAAAGACCT
 GAAGGAATCC ACCTGCATAG GCCACGCGTT CCACTCTGGG TCAAATGCTT CCACGATGCA GAAACCTTTT TTTAAAAAG
 TGCAAGTCTA ATTACCTACC AAGGGTAATA AAAAGCACAG CACAGGAATG ATTACAGCTG ATGGTCAAAA AACAAACCAA
 AACCATTAAA AAAACAATCA GGCAGAAAAC AGGAGTTAAA TGTTTACATA TG

SEQ ID NO:69: (Length of Sequence = 389 Nucleotides)

TCTAGAACCT GGACCCACCC AGCGCGTCTT TTCTTATCCC CGAGTGGATG GATGGATGGA TGGATGGTAG GGATGTTAAT
 AATTTTAGTG GAACAAAGCC TGTGAAATGA TTGTACATAG TGTTAATTTA TTGTAACGAA TGGCTAGTTT TTATTCTCGT
 CAAGGCACAA AACCAGTTCA TGCTTAACCN TTTTTCCTT TCCTTCTTT GCTTTCCTT CTCCTCTCTC ATACTTTCTC
 TTCCTCTCT TTTAATTTTC TTGIGAGATA ATATTCTAAG AGGCTCTAGA AACATGAAAT ACTCACTAGT GGATGGGTTT
 CCCACTTCTC CTCATCCGT TGCATGAAAT AATTACTATG GTGCCCTAAT GCACACAAAT AGCTAAGGG

SEQ ID NO:71: (Length of Sequence = 329 Nucleotides)

GAAAAAATGG GAGGGCAGCC ATGTATTAAT TGTACATCCA AGGAACTGT GCCCCAGGGG TCTTGTGTGT ATTTCTGAGA
 AGAGGGGTGA GAAAAGGCAC TGTGTCAACA TTGTCTTCTG CCTGAACGTG CACCTCCAG TGCTCTCCA TCAATTAGGA
 GAACTGTCTT GAAGAATGCT GCCTCAGCTT CTGAAGAGAA GACCCAGGA CATGCATTAA TGAGAGGAGG GGAGTCACAG
 CTGCAGAAGA ATAAAGCTCT CTGAGGGAGC CTGGGNGCCC CAGTGGAGG CCTGGAGCTT GTTGACCANN GCAGCAGGAG
 ACCCTGCT

SEQ ID NO:72: (Length of Sequence = 418 Nucleotides)

CTGAGTTGCC TGAGGTCAAT CACATGCTTC AGCACCAGTT CCCATCTGTT CAGGCAAATG CAGCGGCCTA CCTGCAGCAC
 CTGTGCTTTG GTGACAACAA AGTGAAGATG GAGGTGTGTA GGTAGGGGG AATCAAGCAT CTGGTTGACC TTCTGGACCA
 CAGAGTTTTG GAAGTTCAGA AGAATGCTTG TGGTGCCCTT CGAACCTCG TTTTGGCAA GTCTACAGAT GAAAATAAAA
 TAGCAATGAA GAATGTTGGT GGGGATACCT GCCTTGTGTC GGCTGTGAG AAAAATCTAT TTGATGCAGA AGTAAGGGAG
 CTGTGTACAG GAGTCTTTGG AATTATCCCT CATGTGATGC CTGTAAAAAT GACATTCATT CGAGATGCTC TCTCAACCTT
 AACAAACACT GTGATTGT

SEQ ID NO:73: (Length of Sequence = 336 Nucleotides)

CTGAATTTTT ATATGCTTCA CTTAGGCTTT CATTGAGTA GACTCTAAAA ATTCTGCCTT GCTTAAGTNC TAACACTGCC
 TCTCAGATTT CAGTTTGGG CATTGCACAA CTAAGACCTT TTAAACGCAT TTNCTTGCTA ACTCGGAAGA CACATAGTCT
 GCAGCAAGAC ATTCTATAT TGAAGAAATG AGAGAAAATT TTATGCTGCA TCAGGTGGAG AGCAAGGCTC AACGGTGGTT
 GCATTAGTTC CCTCGAAGT ATTGAAAAAN CTTTGAAATG GGAAGGAAA TTTTTCAC CTAATGTTCC TGAGGTACCC
 AGAATGTCTG GGGGT

SEQ ID NO:74: (Length of Sequence = 402 Nucleotides)

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GTGCTCAGTA AATACAAATT GGATGGACTA GAGAGATAGC CCGAGGACA CTGCCAAATA AATAACAAAT TGTGCAAGCA
 GCAGGCCGCT GTAATTAGAC CAAGGAGGAC AGTCAGTTAT TAATATCAGA CACGTGGCAG GGTAAACAGC CACTGAGGGT
 GGGTACAATG AAGAGAGTCA CTTTCTGCAC CCTCAGGGAC TTCCCTTGTTG ATGGCCTTCT AAAGAGGGCT GAACAGCACC
 AAGTGCCCTC GCTGCCTCTG GTTCTGCTG CCTCCCGGT GCCTTGGGTG CCCCACAACT AGGGCCCTGG GTCCCTCCCA
 TGTCCCCCTC CCTCTACAA CCCCTCAGCC CCTTATCTGG CCAGCCATTA TGATGCCTAT CAGTATGAGG CCAGATGAGA
 GT

SEQ ID NO:75: (Length of Sequence = 454 Nucleotides)

GGACCCGGG CCGCGATGT GGCCAGTAC CTGCTCTCAG ACAGCCTCTT CGTGTGGGT CTAGTAAATA CCGCTTGCTG
 TGTTTTGATG TTGGTGGCTA AGCTCATCCA GTGTATGTG TTGGCCCTC TCGAGTGAG TGAGAGACAG CATCTCAAAG
 ACANATTTTG GAATTTTATT TTCTACAAGT TCATTTTCAT CTTTGGTGTG CTGAATGTCC AGACAGTGA AGAGGTGGTC
 ATGTGGTGCC TCTGGTTTGC CGGACTTGTG TTTCTGCACC TGATGGTTCA GCTCTGCAAG GNTCGATTG AATATCTTTC
 CTTCTCGNCC ACCACGGOGA TGAGCAGCCA CGGGTCGAGT CCTGTCCCTG TTTGGTTGCC ATGCTGCTTT TCCTGCTGTG
 GACTTGGGGC CGTTTGCTCA TTACCGGGTA CACCACGGAA TGCACACCTG GCIT

SEQ ID NO:76: (Length of Sequence = 313 Nucleotides)

GCTTTGATAG CTAGTTGTCT AAAAGTGCTG NITATTAAT AATCCACCTN TTTCCCACT TAAACATCC CTCTTACCAT
 ATACTAAATT CCGTAGCCC TGGGTCTGTT TCTGGACTCT CCGTCTGTG TGACCCCTC CAGGTACAC TGAGTGAGGT
 AATGGTGGC TGAGAATCCT CTGGGAATCT GGCAGENICA CCCNGAGCA GTCCACCCCN CAACTCATTA NCATCGTTCA
 GAGTGNCTG AGTGNCTCA CACATTCAT CTGCCAATG CACTTTAGGA ACTGTCAAAT TCCAAAGTTT CAA

SEQ ID NO:77: (Length of Sequence = 446 Nucleotides)

CTCAGCGTA GCCTAAGTC GTTTTCCAA TTTAGGAAGC TCACAACGCA GATCTGCATT GTCACGTACC AGCTGTTTGT
 GAACCTTGT AAGCTGTTCC AGGTGTCTCT CAAGAAAGGA AATCTTCTGC TTTTGGGAGT GAATCCCCC ACTGTCTTCTG
 GGCTCCATTT CTGCACTTTT CTGACTCGA GTCTGACGT CTTGAACGAA CAGCTTGCGA AGGTGTGGC SGGTCTGGAG
 TTCCGGGCA ACTGTCTCT CCAGACCTT GAGGTCTGC TTGTGACTGC TCAATGTGCG TCGTACAGAA ATGTCAGCTC
 CTGCAGCTTT GGTCCTCTT TCGTGGTCT TCGCTCTTTC AGCTTCTCTG TAGTCAAGCC TGAAGGCTT TCTAAGCTCT
 AACTGGAGCT TCTGATTTAA GGTCTTTTGA GCTCATCAA TGGTCT

SEQ ID NO:78: (Length of Sequence = 296 Nucleotides)

AGCCGGTGGC GCAATGGAGA GAATGTGCCT GAGACAGAGC GCCTGGCTGG GGAGGAGGCA GCCCTGGGNG CCGAGCTCTG
 TGAGGAGACC CCGTGAATG ACAAATCATC CATCTGGTG CGCATCGCGC CCGAGGAGCG GCAGAAATAC GAGGAGGAGA
 TCGCCGTCT CTATAAGCAG CTNACGACA AGGATGATGA AATCAACCA CAAAGCCAAC TCATAGAGNA GCTCAAGCAG
 CAAATNCTGG ACCAGGAAGA GCTGCTGGTG TNCACCGAG GAGACAACGA GAAGGT

SEQ ID NO:79: (Length of Sequence = 285 Nucleotides)

CCTTTCTGCT CTGGGAAGTG ATGACTCGCA GGTGGGGCTT GCGGCTGGGG GCTCCAAGCT GGGTGTCTGT GGTAGGTGGG
 GGCGGAGACT TGGCAGGGAT GACCTTGTIT AGGCTGTGTC CATTTGCCAC AGGGAGGAGG CCAGGGGAAG CCCGAGCACT
 GACGTAGCCA TTCCAACAG GGCTGGGGCA GGCTCCGTTA GCACGTGTCA GGTCAACNCC CAGCATGGCC
 CCGCACTACGCTG GGGCAGGCCA GGAGACACAC TGTCTCTCTG TAGTG

SEQ ID NO:80: (Length of Sequence = 402 Nucleotides)

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ATGATTTCCTT GCCTGTNATA ACCTATGCAC TCACAAAGAT GAACTCTCTG AGAGGGATGA GCAAGAGCTT CAGGAAATCC
 GAAAGTATTT CTCCTTTCCT GTATTCCTTT TCAAAGTGCC GAAACTGGGC TCGGAGATAA TAGACTCCTC AACCAGGAGA
 ATGGAGAGCG AAAGATCACC GCTTTATCGC CAGCTAATTG ACCTGGGCTA TCTGAGCAGC AGTCACTGGA ACTGTGGGGC
 TCCTGGCCAG GGATACTAAA GCTCAGAGCA TGTGGTGGGA ACAGAGTGAA AAGCTGAGAC ACTTGAGCAC ATTTTCTCAC
 CAGGTGTTAC AGACTGCGCT GGTNGATGCA GCCAAGGCC TGAACCTGG TGCAGTCCA CTGCTTGAC ATCTTTTATT
 AA

SEQ ID NO:81: (Length of Sequence = 246 Nucleotides)

CATTTTTAAT AGAGACGGG TTAAACCATG TTGGCCAGGC TGGTCTTGAA CTCTTGATCT CAGGTAATCC ACCCACTATG
 GCCTCCCAA GTGCTGGGT TACAGGTTG AGCCTCTGTN CCGGCCCGG CCAAAGACTG CCTATCTTAA ACGTGTCTGA
 GGACGTGGAN CAATCAGAGC TCTCCTNTCT TTCCAGTGGG AGTTTAACAT GGCACAACCG CCTGAAAACC GTTTGGNGAT
 TTCTGT

SEQ ID NO:82: (Length of Sequence = 394 Nucleotides)

GGGAACCTC AGCAAAATAT AATGGTACCG CTATTATCAG CCTTGTTCGA GGCCAGGGA TTTTGGGGGA GGTACAGTG
 TTCTGGAGGA TATTCCTCC TTCCGTGGG GAATTGCTG AAACATCAGG NAACTGACA ATGCGAGAGC AACAGTCTGC
 AGTCATTGTA GTAATACAGG CTTTGAACGA TGACATTCCT GAGGAAAAA GCTTCTATGA GTTTCAGCTC ACTGCAGTCA
 GINAGGGAGG AGTTCGTAGT GAATCCAGCA GCCTNCCAA CATCACGGTG GTGGCCAGCG ACTCTCCCTA TGGCCGATTT
 GCCTTTTINAC ATGAGGCAAC TTCGAGTGTG AGAAGCACAG AGGNTAACA TCACAATCAT CCGTTCAGT GGAG

SEQ ID NO:83: (Length of Sequence = 308 Nucleotides)

ATAAGACCAT TGGCAAAGG AGAATTCATG AACTGAAAGA TCTGAAGTAA TTTCCAGAA TGTAATGTA AGAAATAAGT
 TAAAAGGCAG AGCATAATGA GTCTAACATG TGTGATTGAA GTCTTATAAG GAGAGAATTA AGAMCAGGCA ATATTTTAAA
 GGRATAATGG AGAAAATGGA ATAATTGATG AAATATGTA ATATATATAG GGACCATATG CATATGAMGG CCGGGGGTTA
 AATAAAACGA AATCTACTTG TACATACTTT ATGGGATTCC TGCAGCCCGG GGGGATCCAC TAGTTCTT

SEQ ID NO:84: (Length of Sequence = 313 Nucleotides)

CTTTAACTTA ATGGCAATTA AACTCACTG GCAAAAAAA TCACTAGAGA TGTCACTCCA TTATCTTACC AAATAGTGTA
 TTTTACCAT CTTTACCTA CACCCTGAG TAAGGTGGAA TAGGTTAAAG TTACTGGCAT AATAACACTT CATTGAATTC
 ATGATAGTAT TTAACATGTT AAACTGTTT AGTTGAAAAG TTCACATGCA ATTTATAATT TAAAAATATG CTACATATAT
 TTCATAAAW TACAATAGGT CATACTARAC TTTGACTAAA ATTAAGAATG TKTTCTKTC ATAATAATGC AGG

SEQ ID NO:85: (Length of Sequence = 303 Nucleotides)

TGCTCCGTTT ATTGCTCTAT TCAATGACCA CGAGCGAATT ATAAAAAGAC ACCAAATGTC TCTGTCTGCC GTGGGATAAA
 TATTTAAAGT CAGCAATAAA GTCACGIGGC TCCAAGRTAA TACATGTTGC CAAAGAGTCA TGCAATGCCCT CCTGATGGGC
 TCTCAACACA CGTATGGWCA TGGGAACACA CGCAGAGCAA CACGCAGTAT GAACITSTGG GAAGGCITTA CCACAGTGAC
 ACAGTAAAT GTCTCACGTA GATCTGRGCT GAGTCCCCAC CCAAACCTTG AGCTCCCTT CCA

SEQ ID NO:86: (Length of Sequence = 380 Nucleotides)

AAAACAAACC AGCTTTAATA CCAATATAGT TCTCTCTTAA ATACCGTGT TCCAGGACA AATGCAGGGG CAGGCTCTTG
 GCAGAAAGAG TAGAAAGGAA ATGTGGAACA AAATGGAATG GATGCCCCAG GCCCAGGGTC CCTGCCTTGG GCACTAGGGA
 CTGGGCTGCC TCGGGGATGG GGGAGTGACA GCAGTCCCC CTGGTCCAGT TATTGCAGAG GCGTCGGGG CTCCCTCCC

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TCCCCAGGCC TGAAACATTT CTCAGGATTA CTCTGACCT TCAGCCCCAG CAGGGCCAGG GCCTGGGCTC CTCTGGTCTA
GGATGGGCCC CTTTGCCCA AAGGGCCTTC AGCTAAGGCG TTGGGTGGG CGGGGAGCCC

SEQ ID NO:87: (Length of Sequence = 280 Nucleotides)

GCCTTTGCTG CTTATTCGCA TCGATGGTGA AAGAGATGTC AGGAGCACTT CTCTGCTGAG GTGGCTGAGA CGAAGAGGAC
TCCTGCTGCCA GCCTTGCCGC ATACCTGGCA ATTAGCCTGT GTTCTTCATC AAGCCGGTTT GAACCTCTCA GCATGCTCCT
GGTAATAAAA GGACTTCCTG AGGAGGGAAC AGAGTGNGAG AACAGGGTGT CGTTCATGCT GGTACAGGT CTGGGAGGCA
CGATGTGAGC CAAGTTGAGT GGCTTCTCAG GCTGATCTGG

SEQ ID NO:88: (Length of Sequence = 446 Nucleotides)

CCTGCGTCTC TTACACCCYC TCCCACCCGA GGCTCCCCAG AGATAGCAGA GAATTCGAAG AGGTGCGCGG GGACTGGAAA
GAAGTCCCGN NAGGCGCCCT TCGAGTCTA CACCCAGCC TGCTTCCAG CCTACAYCCA GACCCAGCTC AGACCTTCGT
GACCACCCCA TCCCTTCTC CGCTGGCTG GTTGGGGGC ATCCCTCTCT GTGCTGGCT TCCAGAGGCA GGACAGGCCT
CCTGGTAAGC CCGCAAAGTT GCTGACCTCC TGACTTCGTC TGCCTTTAT TAATATCTGT ATTGCTGATA ACCGTGCTCT
TGACTATGTG TCCCAGGTCA TGTCAGGT CATGGAGAAG CCCGTGCCAC AGTGACCTT CCCATACCTC TGGGGGGGCT
GCTCTCCATC TGGATCGTAG GAGGATATAG GTGTGTTCTG GACCAT

SEQ ID NO:89: (Length of Sequence = 384 Nucleotides)

GTCCCTCTG GGGACTCTRT TTCCCAITTT ATTGCTGCTG TGTCCTINAC CAGTTCCTTG CAGGATTCCC TCCTTTTAAA
ATGCCCTTAA ATCTAGCTTT GCCTTGGAGA CCCAGTGGG TGCTGCTCCT GCGTTTTCT TCCTGCCAAG CCTGAATCAA
TGTTTCATCT CCAACCTCT GCGAGTTTG CCCCTCAAAG CTGTGGTGGT CAAGACTGTW AGCCTGGCAG AGCCGCGNGG
TGAAGGGAGA AGCTCTTGA GCAGGCAGGA TGCCACCGCT GCTTCAGCTT GCCTCCTCGC CCAGCTACCC TTTGGCCCCA
TTGGGCCCTC GIMTGCCTCT CCAGATTGT ATGTTTCAAG NCTGTGCTG TGTTCTTTG TCTG

SEQ ID NO:90: (Length of Sequence = 344 Nucleotides)

TCAAGCTGGA AAGGGCTACT ACCTCATGCT GGAAAGGGCT ACTACCTCAA GCTGGAAAGG GCTACTACCT CAAGCTGGAA
AGGGCTACTA CCTCAAGCTG GAAAGGGCTA CTACCTCAAG CTGGAAAGAG CTACTACCTC AAGCTGGAAA GGGCTACTAC
CTCATGCTGG AAAGGGCTAC TACCTCAAGC TGGAAAGAGC TACTACCTCA AGCTGGAAAG GGCTACTACC TCAAGCTGGA
AAGGGCTACT ACCTCAAGCT GGAAAGAGCT ACTACCTCCA AGCTGGAAAG GGCTACTACC TCATGCTGGG AAAGGGCTAC
TACCTCAAGC TGGACAGGGC TACT

SEQ ID NO:91: (Length of Sequence = 364 Nucleotides)

GCCCCAGGGT GAGGGCTATG AGGGGTCAGG GGTCAAGTTC CCCAGGACCC TAGTCCTTGT CCCCTTCCCT GTTGCTAAAT
AAAAGTGAAT AAATACTAAA TAAATACAAC TGGGGCCAG GCCCTCCCTG CCTTCCCCCT CCCTCCTGTG ACCCGCAGCA
GAGGGGGCAG TTTAGATGGA GGGCTGTCTG TCAGCCCCCT CCATCCACTA ACCCATCACT GCCTCCAGG GCAGGAAACC
AGGGCAGGGC CAGCTTGGC ATTAGGGCAG AGAGGAGGGG CAGGTCTCAC GCCACAGCC CCTTCCACT TGAGTCTTAG
CATGAGGCAG CAACAGAAGC TCTCTTTCC TCCCAGCTAA GTCC

SEQ ID NO:92: (Length of Sequence = 218 Nucleotides)

ATTTAATAGA AAATTAAT AATAATAAT ATGAAACAGA CTGATAACGC TGAGCTGGGC AGGCCAGGC CAGTCTAGTA
CAAAGTTAAG GAGGTAGGGA GGATGGTGGG GAGGAGGGG CGGACTACCC TGCAGGAGGC GGGAGGCTGC TCAGACTGTG
GTGATGTCAG GAAGGGCCGC ACACTTTGGC ATGGACGATG CACTAAAAA AGAGAAAG

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SEQ ID NO:93: (Length of Sequence = 364 Nucleotides)

GCTTTCAAGG GAACAAAGAA TGGCCTGGC AGTGCCCTGG AGAAGGAGGT GGAGAGCATG GGGGCCCATC TTAATGCCTA
 CAGNACCCGG GAGCACACAG CTTACTACAT CAAGGCGCTG TCCAAGGATC TGCCGAAAGC TGTTGGAGCTC CTGGGTGACA
 TTGTGCAGAA CTGTAGTCTG GAAGACTCAC AGATTGAGAA GGAACGTGAT GTGATCCTGC GGGAGATGCA GGAGAATGAT
 GCATCTATGC GAGATGTGGT CTTAACTAC CTGCATGCCA CAGCATTCOA GGGGCACACC TCTAGCCCAG GCTTTGGAGG
 GGCCCACTGA GAATGTCAGG AAGCTGTCTC GTGCAGACTT GACC

SEQ ID NO:94: (Length of Sequence = 423 Nucleotides)

CTTCATACTA GAACTGTCTG CCATCTTTAT TTCTTTGTTT TCAGGAAAT TGGAGAGAAA AGTATTTCTT TTTTAAAAAT
 GATTATTATA CTTTAAAGTTT TGGGATACAT GTGCAGAACG TGCACGTTTG TTACATAAGT ATACACGTGC CATGGTGGTT
 TGCTGCACCC ATCAACCCGT CATCTACATT AGGTATTTCT CCTAATGCTA TCCCTCCCCT AGCCCCCAC CCTCCAACAG
 GCTCCAGTGT GTGATGTTC CCTCCCTGTG TCCATGTGTT CTCATGTTC AACTCCCACT TATGAGTGAG GGACATGCAG
 TGTTTGATTT TCTGTCTCTG TGTTACTTTG CTGAGAATGA TGGCTCCAG ATTCTCCAT GTCTTGCAA AGGCATGAAC
 TCATCCITTT TATGGCTGCA TAG

SEQ ID NO:95: (Length of Sequence = 405 Nucleotides)

AACAGCCCC GATCTGCATA GCTGTGAAA GGGCAGGGG ACATCAGTAA CCTCTGCAG CCACCATCCA ATGCCATTAC
 TGINAAGTGA GACTTGGCCA CTGTAGCCTG GGCCTGCTGC AGGAGCTCTT CAGAAAGGCA CATGAGGACC ACGGTTTGCC
 TCAGTTTCTG GTAAAACACA AGGTCTGGAG TGCCCTGCA AAGGGTATG ATGGACTTCC TGCCAGTGAC AGAGCATGTC
 TATTGCAAAC AATTCTCTCA GTTACGTTCA GCACCTAAGA ACGGCTAATG NCAATAGGAT CTTTAGCAAC TTTTTCACAT
 CATAGAAGGT GCAATCGCTC ACTTGGGAAC ACTACTGAGA GTGACTTCTC TTTTAAAATT GAGTAGCAGA TGAAAATTA
 AAATT

SEQ ID NO:96: (Length of Sequence = 173 Nucleotides)

GAAGACAATA CTGATGCCAG CTCFTTGTA TTGTGAAATC TGTACCCAAA CCTCTGGATT AGAATCTCCA GTTGTCTACT
 GTAAATACTG GAATTACAGC AAAGGATATG GGGACTGGG TGCTTTTCTG TATTGTACAA GCACTATTCT AGATATTAA
 GAAATTTAAC CGC

SEQ ID NO:97: (Length of Sequence = 337 Nucleotides)

ATGGCGCCCT ACAGCCTACT GGTGACTCGG CTGCAGAAAG CTCTGGGTGT GCGGCAGTAC CATGTGGCCT CAGTCTGTG
 CCAACGGGCC AAGGTGGCGA TGAGCCANTT TGAGCCCAAC GAGTACATCC ATTATGACCT GCTAGAGAAG AACATTAACA
 TTGTTGCAA ACGACTGAAC CGGCGCTGA CCTCTCGGA GAAGNTGTG TATGGACACC TGGATGACCC CGCCAGCCAG
 GAAATTGAGC GAGGCAAGTC GTACCTGCGG CTGCGGCGG ACCGTGTGGC CATGCAGGAT GCGACGGSCC AGATTGGCCA
 TGCTCCAGTT CATCAAG

SEQ ID NO:98: (Length of Sequence = 212 Nucleotides)

TGAAGCCCAA GNAGTNTGTG AAGACAGAGA ATGACCACAT CAACCTGAAG GTGGCCGGGC AGGACGGCTC CGTGGTGCAG
 TTCAAGATCA AGAGGCACAC GCGCTGAGC AAGCTGATGA AGGCCTACTG AGAGAGGCAG GGCTTKTCAA KGAGGCAGAT
 CAGATTGAGK TCGACGGGC AGCCAATCAG TGAACTGAC ACTCCAGCAC AG

SEQ ID NO:99: (Length of Sequence = 26 Nucleotides)

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CCTTTTAATA ATAATTCTGC TGTCGCTGT GTACTAGAAC CCATGCCTAC TGCTTGGGGT ATAATGTAGT AAATGTAGTA
 AAAACAATAT CCGCCGGGCG CGGTGGCTCA CGCCTGTAAT TCCAGCACTT TGGGAGGCCA AGGAGGGGCG ATCACGAGGT
 CAGGAGAGCG AGACCATCCT GGCTAACATG GTGAAACCCC GTCTCTACTA AAAATACCAA AAATTAGCCA GCGTGGTGA
 TGGACGCTG TAGTCCCAGC TACTC

SEQ ID NO:100: (Length of Sequence = 333 Nucleotides)

AAAATGCTCA CAGTGGTCTT CTCTGGCCGG TGAGCCTACA GCTGATCTTG TCAGAGACAA ACGTTAGTTT TACTGAGTCA
 CCCAGAGCCC TGTCGTGGTG CCTGAGGGTT TGTTCCATGG GACAGTCTCC ACAATTCCTC TGGGGAAGGG CCACAAATCC
 CACAGTGTGT CCCAAGAGGG CTGGAGTAGG CGGAGTCCCC AGCAGCTGTG GCATGACCAG CCATCTCTCT CAAAACAATT
 GTTAACAAGC CTCTGCAAG TTAAGGTTCC ACATGGTAGC CGTGGTACAG AGGCATTTCT CTAGGGTGGG AGAGGCTTGT
 GCTCTACACC AGG

SEQ ID NO:101: (Length of Sequence = 156 Nucleotides)

CTCTGACTTT CTTGTGGNIT TAGAGCCAAG CTCAAGGTAG TAGGCGTAG GGNCTTATTT TATTTTCAAA CCCCCATCCT
 CAGAGCGCAG ATACATGCAG AGGCTTCTGC CAGGCTACCA CGGGGCTTA GTGGGAACAG GTTGAGACCA GCACTT

SEQ ID NO:102: (Length of Sequence = 331 Nucleotides)

CGAAAAGGGG NNNTATGGCC ATCTTTTATC AGAAAAAGTG ACAAACGGG AATTAAAAA ATGAATTTTC NNICTGACTT
 TATTINNAAT TACACTTTCT TTTTINNAAT ACCAATACAC TTTCTTTGAG GATGACAGTA TTAGGAAATC CAATTNNACA
 AAAAATACTA CATCTAGTCT GGGGTAGATA TATTTATTTT TGGTAAACATA CATTAAGTGG CACTAATTAC ACAGTAACTA
 TAAGGTAAC TAACTGAAAC CACAGAACTG TAACTCTGCC ACAGCTGCAT GAACCTGGGC TTTTCTGGTT GAGCCCATTT
 TCAAAAAACT G

SEQ ID NO:103: (Length of Sequence = 316 Nucleotides)

AGCCACTGCG CCCACCCCA TTTCGGTGIN ANCTCAGCTC ACTTCAACCT ACCCTCCCA AGTCAAGTG ATTCTCCTAC
 CTCAGCCTCT TTAGTAGCTG GGATTACAGG GGTCTGCCAC CACGCTGGGT GATTTTCCCTA TTTTATGTTG ACACTGCATT
 TCACCAGGTT GGCCAGGCTG GTGTGAACT CCTGACCTCA GCTGATCCAC CCGTCTGGG GTCCCAAAGT GTTGGGATTA
 CAGGTGTGAG CCACCACACC AGGCCCATAT TTTCTTTTAG ACATGCAGGC AATGTGGTG GGTGTGCTG TTAAGA

SEQ ID NO:104: (Length of Sequence = 308 Nucleotides)

GTTTTTCCTG CATCTATTGA GATAATCATG TGGTTTTTGT ATTTGGCTCT GTTTATATGC TGGATTACAT TTATTGATTT
 GCGTATATTG AACCAGCCTT GCATCCCAGG GATGANGCCC ACTNGATCAT GGTCGATAAG CTTTTTGATG TGCTGCTGGA
 TTGTTTTGTC CAGTATTTTA TTGAGGATTT TTGCATCAAT GTTCATCAAG GATATTGNC TAAAAGTGTG CTGTATTGAG
 GAAACCCATC TCACGTGCAG AGACACACAT AGGCTCAAAA TAAAGGGATG GAGGAAGATC TACCAAGC

SEQ ID NO:105: (Length of Sequence = 355 Nucleotides)

GGCCTTCCTC AATATGTAGG CGCCACTTTT TCTCCCTGTG CCCTCACCTG GTCACCCCTC TGTGCGCGAN ATCCCACTGT
 CTCTCTGGGT GTCCAAACTT CCTCTCTTGA GGAGGACACA AGTCAGATTG GATTAGGGCC CACCCCAATG GCCTCATTTT
 AACTTAATCA CCTCCCTTTT GTTTGGGCTT TTTAACTTAA TCACCTCTTT AAAGACCTTA TCTCCAATA AGGTTTCATT
 CTGAGGTATA CTGGAGGTTA AGACTTTAAA ACACGAATTT GGAGGGGACG TAATTCAGCC CATAACAATA ACAATAATGA
 CATCTTACAA CTTACTGCCA CCACCAAGCT TGCTG

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SEQ ID NO:106: (Length of Sequence = 355 Nucleotides)

GGATGAGGTC GCGGGATCG TGGCTGCAGC CCACTGCAAG ACCAATCATG TCACAGCTTC CGTGGACGCC ATTAATTTTC
ATGACAAGAT CAGAAAAGGC TGGTTCATCA CCATCTGGG ACGCATGACC TTCACGAGCA ATAAGTCCAT GGAGATCGAG
GTGTGTGGTGG ACGCCGACCC TGTGTGGAC AGCTCTCAGA AGCGTACCG GCGCGCCAGT GCCTTCTTCA CCTACGTGTC
GCTGAGCCAG GAAGGCAGGT CGCTGCCTGT GCGCCAGTGT GTGCCCGAGA CCGAGGACGA GAAGAAGCGC TTTTAGGAAG
GCAAAGGGCG GTACCTGCAG ATGAAGGCGA GGGAC

SEQ ID NO:107: (Length of Sequence = 273 Nucleotides)

GTGTCTCTTT TAAAGAAAAC ATACTTTTAT TTGGTCTAAA TTGTGAAAAT ACCCAAAACA TTGATAGAA ATTGAACCTT
GTCAACAGTG TTATTATAC TAAGATCAGG ACAGTTCCTT GAGATCATAC TGTTTATTCTA CTAAGTTTGG CCTTTGTTTT
ACAAATGTAA TGTTCATATT TATTTGAATT TTAAGATTGG TTAAATGTTA ATGAAAAGCA ATCCAATTGT TANTTTTTAG
TAGTGCCCTT TCTCTGTATG CCTTAATTTT ATT

SEQ ID NO:108: (Length of Sequence = 359 Nucleotides)

ATTTTATTTC CTTACATCGA AGAAAATGTT AAAGAGTATC TGCAGACACA TTGGGAAGAA GAGGAGTGCC AGCAGGATGT
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCACCTG GATGGGGCTG TTCCTATCCC TGCAGCATCT GGAATGGAG
TGGATGATCT GCAACAGATG ATCCAGGCCG TGCTAGATAA TGTGTCTGG CAGATGTCCC TGGTTCGAAA GACCACTGCA
CTCAACAGC TGCAGGGCCA CATGTGGAGG GCGGCATTCA CAGCTGGGCG CATGAAAGCA GAGTCTTTTG CAGATGTAGT
TCCAGCAGTC AGGTAAGTGG AGAGAGGCCG GGATGAAGG

SEQ ID NO:109: (Length of Sequence = 360 Nucleotides)

TTTATNAAAG CAGTTAACT TAGCAITAAA TAACACTCTT TAAATGGTAC ACCTATGAAG CAAGAGTTAA ATATAAACCC
AGTCTAATCC TGTACACTTG TGATTAAITG TGACAATCTT AAGTTGCTCA CTCTTTTCCC ATTTACCAAT TCAGAGAAAG
CCCGTTTCTT GTTTTCTCTT CACCACTTTG CCTTGGCATC ACACCAACCC TGCTTGGGCG TTCAGCTGCA GATCCTCCCC
AGCCCCCTCT CCCAGCTGGG CTGACTCCAG TCCCAGCCCC AGTCTCCACC AACTGAGCAG CGTACGCAAG GTTGTGTCTG
GCTTCCAGCA TCTACCAACC CTTAGAGCA ACTT

SEQ ID NO:110: (Length of Sequence = 364 Nucleotides)

TCTCAGAGGG GCTCTGGGGG TCATTCAAGG GGGACTTCTA GCTTCTCTCT GGAACCCCTT GTCCAGAGCA AAGCCAGGT
TCCAAGGTCC CCACGCAAG GCTGTGGGT GCTGGCAGCA AGAGGTACAC AGCAGTTCTC CCAGCTCACA GCAGTGACCT
CAGATCTCCA GCAGCAAGG CGCACTCTC GTGCCACAA GGGCCTTGCA GAAATNCTCC GTTCCCTGGG NCTCCCCCGG
CAGGAGGGGC GGGGCTCTG CTGCACTGA GGCCACAGCA CTAAGCGGCT TCAGTCACAT GCTTTTCAGG TGAATCACTC
CAAATTCAGT GAGGAGGGCC ACGACAAGGA AGTTCAGGTA GAAG

SEQ ID NO:111: (Length of Sequence = 455 Nucleotides)

TTTTTTTTTT TATATTTTAA ATGGAATTTA TTCTATCAAC TGCTGAGAG GACACAATGG GGGAGGGGCT TCGGACCACA
GCAGGAGCCC CGACTGCCCA CCTGAGGGCA GGGAGAGCCT GACCCCATTTG GCCCAGGCC TGGCTCTGTA ACCATTAACC
TCTTCCCCCA ACTAACACCA ATGAAAACAC CATTCCAGT GACTGGGCTG TGTGTTTGCC TCTGTGACAT GGGGACCCCT
GACCCTAGGG GTCTCGCCTG AGCCAGACCT GAGGGACCCA CCGCGTAGG ATGGAGGAAG GTTTAGGCC CTCTTTTGCC
AGCCAACGCC GGGGGTGGG GCAGACCCTG GGAGTGGGCC TTACAGACCA GCCACAGGTA TTTCTTAGGC AATTGACAC
ATTTTATTAC AAAACCAGTC TACATTCATT CCTAAAAGG TCATTTTCAG TAAAA

SEQ ID NO:112: (Length of Sequence = 398 Nucleotides)

CTGATCTGAC AGGAGGTGTA GGTGAGGCAG TAATGGAAGT SATGGGGAAC AGCTGTAAAT ACAGATAAAG CTTTACTCAC
 TCGCCACCCC ACTGCTCATC TCTGCTGTA CTGCCCAGTT CCTAACAGAC AGCAGACAGC TACTGGTCTG TSGCCCAAGG
 GTTGGGGACC CCTGACATAG ACTAAACAAT TCACAATGTT TATATTAAAC AACTTATTCC AAGTTTCCAT TTTAGACTCT
 GGAACATCTG ACATGGTGAA TCACAGGTA GTAAATSGGA AGGGAGATAA CAGACAACTT GACGGCCGTG GAAGACGCAC
 TGGGCGGGCA CTGGTGAOCG GTCTCGGGAC AGACTTCACA TCTCCAGACT GGCACAGTGG GCTCACACCT GCCTCCCA

SEQ ID NO:113: (Length of Sequence = 444 Nucleotides)

ATCAGTGICA GTGTCTAACA GAAGGGTCTG TTAAGGATGC TCTGATTTA ACCAAAAGAT TAAGCTTCAG AAACAATCTA
 ACATACTCAA AGGAGCACCA AATTATCAAC CGGCTACAAG GATGCAAAGG ACCTAAACAA CAGATGTCAA AGGGCTTGTA
 AAAACTGGAG CCAGCAACCA TTCCACTTGA AGGAATCCAT CTCAGGGAAA TGCTGGAATC CACACACAAA AGCAGGTGTG
 CAAATAATCA CTGCAGCAGC CCTTCTAATA GTGAACAACA GAGGCAATCC AAATATCCIT CAACAGGGAA CTGAGTAAAT
 ACCAACTATG GGCATATCCA CATAAGGCTC TCTGCAGTCA TTAAAAAGGA TTGCACTTAC ATGCATGTCT GCCATGGAGG
 TCTTTCAGGC CAATGGTTCC ACTCGGAAGG GCAACCACCA ATTA

SEQ ID NO:114: (Length of Sequence = 472 Nucleotides)

TGGGGCCCCA ACGGAGACCT GGGGATGCOG GTGGAGGCGG GAGCGGAAGG CGAGGAGGAC GGCTTCGGGG AAGCAGAATA
 CGCTGCCATC AACTCCATGC TGGACCAGAT CAACTCCTGT CTGGACCACC TGGAGGAGAA GAATGACCAC CTCACGNC
 GCCTCCAGGA GCTGCTGGAG TCCAACCGGC AGACACGCCT GGAGTTCCAG CAGCAGCTCG GGGAGGCCCC CAGTGATGCC
 AGCCCCTAGG CTCCAAGAGC CCCCACCGG GACCCAACCC TGCCCTCCCTG GGGCTAAGCT CTGGCCTGGG GCACTCACCC
 CCTGGCTTAG ACAACTTCTC AAGGGCTTGG CCTTCAGGGG ACCCTTGTGG GTCTTGCCIT GCTGGGGCCA CCTTTTCTTG
 CTGGGGCTT CCCCTTTGGC CTACCTTGGG GCCAAGCCCC TACCAACTTT GGATTGCCTT CTGGGGGCC AA

SEQ ID NO:115: (Length of Sequence = 293 Nucleotides)

CTNGGGGCCA TGTTGGCTGAT TTCCATCACC TTCCTTCCAT TKGCTACGGC GACATGGTGC CCCACACCTA CTGCGGGAAG
 GGTGTGTGCC TKCTCACTGG CATCATGAGA GCTGGCTTTA CCGCGCTCGT GGTGGCTGTG GTRGCTCRCA AGCTGGAGCT
 CACCAAGGCT GAGAAGCAGG TGCACAACIT CATGATTGAC ACTCAGCTCA CCAAGCGGGT AAAAAACGAG GCTGCTAACG
 TTCTCAGGGA GACGTTGGCT CATCTACAAA CATACCAGAG CTGGTGAAG AAG

SEQ ID NO:116: (Length of Sequence = 448 Nucleotides)

TTTGAAAATT TAGAGGATAT TTATTTCTCA GGAAGGTGCA CAACAGCTGG CAGGCACTGC TTCCCTGCT CTAGGGGATT
 CCTCTCTCCT TTCCAAGAA ATCCCTCTC TTCTTAGAAG TGCCCATGGG AGGCTGGGAT GTGAAAAGAA ACCATACACA
 AACTCCAGA GCCTTAAAAA AATAAAGCAA CAACCTCTC CACACGAATA CACTTACAAA ATAAATAGAC GGATAAAGA
 GAGGCCACGT GCCTCCCATC CCGGCTGTAG GGCTGCTTGG GGATAGTGGG GCTGGGTGGC TCGTCCAC TTCTCCAGC
 CAGGATGATC CAAAGGCTAA ATGGGATGGA AGGGCCCTGG CTTCAGAGA GAGGGTGGGG CAGGCTCTC CTGGTACTCA
 GCAGGGAGGA CACTGGGGCA CGGCTAGGGG TCCAAGGGCC ACTTAATA

SEQ ID NO:117: (Length of Sequence = 551 Nucleotides)

GAGACGGAGG CTCGCTCTGT CCCCAGGCT GGAGTGCAGT GCGAGATCT CAGCTCACTG CAAGCTCCGC CTCCGGGTT
 CACGCCATTG TCTGCTCTA GCCTCCGAG TAGCTGGGAG CCAGCGCGCC CAGCCTAAAA AACTTTTCAA GTCAATATTA
 CTACGATTTA ACATTAGAGT GTGGACATGT GATTTAATCG CTATAGCTAA AATACGTCAA ATATACGTTG TCATGTGCTT
 GAACATGATG CTAACCCTGA CAGGATGAAG GAAAGTAATA TTCTTTCAGT GTAGTTCAGG AGAGCATTTG TTTTCTTTTC

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TACCAATTAA CCCATCATTG CTTTTAAACA ACCATCTGAA GGAGCAGAGA GGCAGGGTAG AAGACAGAAG GGGGTCTATG
TGGGTACTAA AGATGTTTCT GTTTTGTAAT ATTGTGTGTG TGTGGGTTTA TGGTTTGCTT AAGGGATCAA AACCTGGAAA
AAATGGGATT CCAGGAATGG CTCTGTTATT TTTGCTGGGT TCCAGCTTGT AATGCCTACT GCGTTGGTTC A

SEQ ID NO:118: (Length of Sequence = 426 Nucleotides)

CCCCACCCCA AAATCAAAAC TGAAGGTAGT GTCAGTGTAT ATATGGNGTC CCTGTGTCTG AAAGTCAAAG CAGCTTCATT
TTGGGGCCTC AAGAGCTCCA GCTCTGGGCT CTTACCTCT AAGCCCATGG GCAGTGCCTG CCCAGTGGTG TGTATAGATC
GGAGGCTGAG GGCCTCAGCC TTAGCTGAGC TGTGCGGTGC TGGGGAGCCT GTGCAGGAGG GTACAAGTAG GAAAGTGCCA
TCTGCATGGG AAGAAAAATG CAGCGTCTT GGTAGTGCGG ATGGGGTCCA GGAGACCCAG GGAGCTTGCC CAGAGGGACC
TGAGTGGCAT TCCTGTAGGA AAGCAGCCCA GATCTTGGGG CCGTAACGGA TGTCTTGAA GTTTTGACTT TGAACCACCA
GGTCCCATTG TTAACAAGCT TCTTGA

SEQ ID NO:119: (Length of Sequence = 434 Nucleotides)

TTTTTCGGTT AAAAAGGCC AAAACTTTAT TTAGTTTTCA GGGAAATATA AGATGCATGT AAACATAAAA TACAAAACAA
AACCCAAATC TTACAGTCTA GAAGCATGCC AAGACAGAGC ATTTTCTGCA GACCAAGAG TCCCGTCAA GTGATAAAGG
ACACCTGGAA AGTGGCAGGC CAAGGGGCTG GTCCCTTCCC CAAGGGCACT GCATTTTGT GATGAGATTA AAAACAAACC
AATCCACTA TTAATAATGC TAGAAACATG GGATAGTTTA GCACCAACAT TGATTCTGCG AAATATTICA GCACTCACAT
CGACTGCACT GAGTTTAATG TCCTTCTCC AGTTTCTCTG CTGAGTAGG AAGGAGGGAA ACCTGGGGGG AAGGGGCTCC
TCCTGACCCC ACAGGGCCAC TAGGAGCTTG GAGG

SEQ ID NO:120: (Length of Sequence = 276 Nucleotides)

AGGAAGTGTT AGCAAATGCT ACCATGTGGA AACTCAACT TTATTGCTT TATTTATATA TTAAACAATT CTAAAGTATT
TACTTCTTGC TTGACAAAA AATGAAAAAT ATAGGGGCAC TGACTGACTC CTCTTTAGGA GAAAAGGGTT ATATGTACAG
CTATGGAGAG TTACGGTTCC CCTTTAACA AAGGCAAATA TTAATAAAAA AGGGCTTCAT CGGTCAAAAA AGGGCTAAGA
GCTGCAAGCA TTTATTACA CTGTACATCG GGCCCC

SEQ ID NO:121: (Length of Sequence = 554 Nucleotides)

ATTTCTTTCC TTAATCATAT CTGATGCTGG GATGTGGGTA ACCCCAAACT GAAGGCAGCT GCTAAATCTC AAATGCTAAA
AAAATACTGC AATTTTGACA TCAGTGAGTC AGATCAATAC ATCCTCTGGG GCTGATTTTG CTTACAGTT AGSATGAGCC
ATCTCTTAAG CTGCAGGCTC AAATGGGATT AACTGAACCTC TATACCTGGG ATGGGCCATG GACTGAGCTG TCCATGCAGA
AGGACCAGGC TGTCCATGCC TTCCCTGCCC TTTTACTCAC CACTGCACAG CAGCCCCAGT GGGCCTACTG CACATGTCTA
GGAGAAATCA CTCTAAGAAA ACCAACAGGA ACAGGCTTTA GGCAACAAGA GACGTCTCAC TGCATCTCCT CCCAGCTCAG
AACTTGAGTA CTGGGTCTTT GCAGCTCAGA GCATTCTCTC CTTCCTTTT CTGCCCCGAAA GGCCTGCCTT TTCTTGAGAC
ATATGGCACT CCATGCTGCA AGTTTCAAGC AGATGCAGGT TCTTATGGG CTTTTTGCTC AAAGAGCTTT GGT

SEQ ID NO:122: (Length of Sequence = 238 Nucleotides)

CACCTAAGCA GGTAGACATC CGCAAAGTCA GATGCTTTCC AACATGACAC CTGAACATCT TCCTTTATGC AACACCCAAA
CATCTTGGCA TCCCCACCCC AGGAAGTGGG GGGAGGAGT TATGATCCCT GGGCGCTTCG GCAGAATGGA GAGCTGAGGT
GTCCCTCCCC TGCTAGTCAC CTACCAGGTG TCTGAGCAGC TGCATGCTCC CTGGCTCAAG TGGGCACTGT ACCTTTTG

SEQ ID NO:123: (Length of Sequence = 244 Nucleotides)

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ATCCAGGCTT TCATTTCTAG CCAACCTCA AACACCACCA ACTACAAAGA AAATTTAAAA GTCTAATTTG TAACCTTCAG
ATAAGTATAA ATTAGTTTTT TCTAGGCTTT CATTTATTGG CTCTTATAC AATCTATCTT GTAAAGTACA TTCCCTCTAAA
TTTACATTAT CTAAAATTAA GGCTAAGCAT TATTTAAATC ANTTAATCAT ACAATATTTT ATGGCAATAT GCACATATTT
ATAA

SEQ ID NO:124: (Length of Sequence = 330 Nucleotides)

CTCAGOGTAT CATAGGCGTG CTCACCTCC TCCCCAGCT CCGCCCCGC AGGCAGGTGG TGTAGGATAG AGTGGTGCAT
GAAAGGGGGG AAGCCCGAGG GGCCCGCTGG GAAGGGTGCT GCCCCGTAAA GGGCATCCCA CTGGCACTGT GCCTCANCTG
COGCTTTCTG CTTGAGCTCA GCCAGTGGCC GCGCTGCTC TTCAATCACT TGTGTCCCT TCTGCTGCAG AGCTAGTTGG
CGCTTTGGTC TCGATGTCTT GCAGTGTGGC TGCCAGGTGG CAAGGAAGGC TGCCCGGTGC CATTCTGGGG GTGAGTAGGA
GCGCTCTTTT

SEQ ID NO:125: (Length of Sequence = 281 Nucleotides)

CCTCTCTCCC TTGGGTCTC CATTTACGA GCCACAGTAT TTCTTAAAGC TCGTTGGCAG CCTGCACCTT GCTTATCTT
GGGAGACAG AGTTTGATC CTATTACAAC CCATAGTTTT TGCATAACCA TGGTGAGAGG AACCATCCTT CCCAATCCCA
ACCTCAACCA AAGCTTAGAA AAAGTGCCAT CNTTAACCTT TCAGAATCAC TCATAAGTAA ATCCTATAGC AGTCTCTGCT
AATGCAAATT TCAATGTGTG CCGCTTATT AGGTGACTTT T

SEQ ID NO:126: (Length of Sequence = 266 Nucleotides)

CTTTAATGA TGTGGTCTG GTGGGATTA TAAAGGGAGA TGGACCCCTG GNAAGATGCT TTCCTMAACC ACAACCCACA
CATTGGGTCA CCATTTCTC TTCTCTCTCC TTCTGTGGGT GGCCGGAGAC CTGTAGGACC TTCCCTCCCT TTAGGGTTCT
GTAAGGCCCC TTTTCAGTCC TCAGAGTCCA TTCTCTCTT GTGCTGAGGG CCTGCAGTGG GGACCATATA CTTCTGGTGC
TCTTAGTTTG CTGTGCGTCT TGTTTT

SEQ ID NO:127: (Length of Sequence = 435 Nucleotides)

GTCTGGTTCT ATTCATTTTG TAGTTGCGAG AAAAGGAATG AACCGTGACT ATGGCAATTC ACCGTGACGT GTGATAATTT
AGTTTGCTAT GAGTTTTCAC TCTTAGGTAA AACCTAGTTA TCCTAATTAA TAATTAGTTA TGGATGATAT AGTAATTTTT
TTTTTTTTTG ACTGCGTCTC ACTGTCAATC GGGCTGGAGT ACAGTGGCTG ATCAGATTC GGTGCAGCCT CGACCTCCCT
GGGCTCAGTG ATTCTCTGCT CTCAGCTTCC CAAGTGGCTG GGGATTATGG GCATGCACCA TCAATGTCTG GCTAATGTTT
GGTGTGTTTT TTTATAAAGC CAAGGGTTTT GCCCATGNTT CAAGACCCCG GGGCTGGTCC TTGAACCTCT TTGGGGCTTC
AGGCAAGTCC TCCCACCTTC GGGCTTCCC AAAGT

SEQ ID NO:128: (Length of Sequence = 471 Nucleotides)

TTCCCTTCCC AAGGACTCGA CCTGAGAACC GCCATGTACT CGGAGATCCA GAGGGAGCGG GCAGACATTG GGGGCTTGAT
GGCCCGGCCA GAATACAGAG AGTGGGAATCC GGAGCTCATC AAGCCCAAGA AGCTGCTGAA CCGCTGAAG GCCTCTCGGA
GTCACCAGGA GCTCCACCGG GAGCTGCTCA TGAACACAG AAGGGGCCTT GGTGTGGACA GCAAGCCAGA GCTGCAGCGT
GTCTTAGAGC ACCGCGGGCG GAACCAGCTC ATCAAGAAGA AGAAGGAGGA GCTGGAAGCC AAAGGGCTG CAGTGCCCTT
TTGAGCAGGA GCTGCTGAGA CGGCAGCAGA GGCTGAACCA GCTGGAAAAA CCACCAGAGA AGGAAGAGGT TCACGCCCCC
GAGTTTATTA AGTCAAGGGA AACCTTCGGA GATTTCACA CTGACCAGCG AGAGAGAGAG CTTTAGGGCC A

SEQ ID NO:129: (Length of Sequence = 186 Nucleotides)

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GCCTTTAAACA TCCCTGCGCA ATRACTGGCC TCAAATCACC AGTGGAACTT TTTCAAAAAA TACACCATTG GCTCTATGTA
 GTTCTACTGA TCTRAAATAT CCACGTGTGG GCCAGGAGCA CTGGCTCATG CCTGTAATCC CAGCATCTTG GGAGAGCGAG
 GAAGGAGGAT CATTTRAGCC CAGGAG

SEQ ID NO:130: (Length of Sequence = 307 Nucleotides)

ATAAAATACT TAGGAATATA CCTAACCAAG AAGGTGAAAA ACCTCTCCAA GGAAACTAT GAAACTGTC TGAAAGAAAT
 CATAGACTAC ACAAATACAT TTCATGCTCA AGGATGGGTA GAATCAATAT TGTGAAAATG GCCATACTGC CAAAAGGGAT
 CTWCAAATTC AACGGTATCC CCATYAAATA CCACCATOMT TCTTTACAGG NITCGGAAAA GGAATTCCTAA AATTCATATG
 GGACCCAAGA CGGGGGCCGC ATAGCCCATG GCCGGCTTAG SSWAAGGGA CAAATCTGGG AGGCCTT

SEQ ID NO:131: (Length of Sequence = 184 Nucleotides)

CCAGGTTGGA TGGAGTGCAA TGGCAGCATC TCGGCTCACT TACCTCCC AGGTTCAAGC AATTATCCTG TCTCAGCCTC
 CTGAGTAGCC GGGATTACAG GCACGTGCCA CCACACCCAG CCAATTTTIG TATTTTITAGT AGAGACGGGG TTTCACCGTG
 TTAGCCAGGA TGGTCTCAAT CTCC

SEQ ID NO:132: (Length of Sequence = 270 Nucleotides)

GCNGGAGGGC GTGAGGGGCC AGGAGCTATT CTACACGCC GAAATGGCTG ACCCAAGTC AGAATIMTTC GGNAGACAG
 CCAGGAGCAT TGAGAGCACC CTGGACGACC TCTTCGGAA TTCAGACGTC AAGAAGGATT TCCGGAGTGT CCGCTTGCGG
 GACCTGGGGC CCGGCAAATC CTTCGNNNC ATTGTGGATG TCCACTTTAA CCCCACCACA GCCTTCAGGG CACCCGACGT
 GGCCCGGGCC CTGCTCCGGT AGATCCAGGT

SEQ ID NO:133: (Length of Sequence = 529 Nucleotides)

CTTGCACTAC ATAGCATGTG TATTACTGAT AGCTTTATAA ATCTGCCAAA TAACATAGAA TGTAGCCTCA AAAGGATGGT
 CGAGGGTTG CAATCTTTCT TTCTCCACCC AGTGGTGTGG AGCAACTCTG TGCCTTAAAG AGGGCACCAT GGAAAGAAAC
 AAAAAGGAAT CTCTTTCAAA ATGCTGGAAA TTAGGCTTAG CTCACTACTT TCAGGATAAA GACAACCTGCA TCTAATTAAG
 TCCACTCCAC ATTTCTTTGG ACTCTAAGTA TTCTGCACCT GAAGGCTAAA TGAAGCTGGC TCAGCCCTAT CTTTTTTGCC
 ACATCTTTAA TTACAAATCT ATTTCTTCTT CCTTCATTT ACTTCTCTTC TCTTAAGTAA GAAATGTGGG AAATGAGACT
 GGCAGTTTGG TTTGTTTGCA TGTGGGTGTC CATTAGGCGT CTCATCCTAT GGCCCTTTTT GGAAATGTTG CCTTCTACT
 ACACACCTGG GAGGTTTCCC CAAGGCTCAA CCTTTTGTCT TCAGGTAAA

SEQ ID NO:134: (Length of Sequence = 437 Nucleotides)

GACGGTGGCG ACGCGTGCAC CGGGGATGTG TCCTGCCACC AGAGGAGGTG TGCCTGGCGG GGAGCAGAGG GGCCTTGTGT
 CCCAGGTGAA GGTGCGGCTT CTTCACCTCT AGAGGTGCGT GTGTGGGTGG GGGTGCCTGC TGTGAGGTT TATGCTGTGA
 ACTGACAGCT GTCCCCCAAG CCATGCTGGC AGTGTGTAGG TGTGCTGGCG GCCACCGCAG AGGAATCCTC TGGGCTTCTG
 TGGTTCAAGT GGGGCCCAGC GCAGAGCTCC ATGAGTTGCT GAGCAGCCAG CCCTTCAGCA TCTCCTGGGT TTTGGCAGCA
 GGAGGCGTCC CCTTGTGCAA TTCAGGGGCG CGTGGGGGCT GGGGGCACTC GTAGCAAGGT AAAGGAGCCC CTGCTCAGGC
 CCTGTGTTGC TCCCTTTCT TGCAAGAGGG GTAGACG

SEQ ID NO:135: (Length of Sequence = 534 Nucleotides)

GGCATTGTTT TGGTGGGTGT GTACGCTCC CAGAAGACTG AATTTATGGT AGGATCACTC GCAAGGCCTT GTGAAGGAGT
 CTTACCTAAA ACAAAGAAA TATCAGGGAC TTTTGTGAC TATTTACAAC TCAGTTTAC ATTTAAATTC AGGCAGTGT
 AATATGCCAA GGTAGGGAAT GTGCCTTTTT CAGAGTTGGC CAGGAGCTCC TGGCTGGGAC ACGGAGAGGC AGGTGTGGCG

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TAAGGCCTCA CTCCGGGCTG TGAAGGTCCTC TGATCACACA GAAGCAGCCC TGCCCAGCCT GGGTCATTTG CTGTCCGCTT
 TTCTCTGTGA CCACAAGCAG CCCTGAACAA CCAGTATGTG TCTTCTTTCT CCAGATAGTG AAAAAGGGTG TCCAGATAAA
 CCCACCTAAG TGAAATGGGC CATCTCTTAA ACTGGGGTAC CTCACTGCAC AGGTTCTAGG TAGGCTTTCC ACTTAATCTA
 ACTTGAGGCC TACAGGTACC CTGTAAAGTT AGTGGGGCTT GTCCTTGATT GTGG

SEQ ID NO:136: (Length of Sequence = 279 Nucleotides)

CAGTTTGAC AAAGTAGCAT AGTGACTTIN TTCTACANT GACTTTCGGA GAAGTINGCA GTTCTGGCA AAGTGACGCT
 GGGCTGTTTG AAAAAGGCAA GCTTAGCCTA GGCTGCCATC TTAAACATT TCGAGGCTGT AGCTTCCTCA GGATCCTTTG
 CCTGTGGTCT GGTGGCCGGC AGTGCCCGT CTAACAGCTT TTAACCTGTC ACTTAGTGCC TGAGCACCTA TGGCTGTGAG
 AGATGCTAGA TACAGAACCC TGTCCTGTAC CACGTGGGG

SEQ ID NO:137: (Length of Sequence = 518 Nucleotides)

CAAATATTTA ATGGAGATCT TCCTGTGTGG TCTGTATATAT GTCTATCCGT TTCTGGGTGG TTTAGGAGAA TCTGTACTAT
 TTCAGCATGT CCTCCTCCAG CAGCAAAATG AAGAGGAGAA CTAAGTGTG CATTTAAAG GTTTGGATTG CACTTTCTCT
 TCTCTAACAA TATGCGAGTG GCCTCAACTT TTCCATACCA GCATGCATAA TGAATGGGTG CCCAGTGGTC ACTATCTAAC
 TGGTGTACTG AAAATCTTTT ACTGAGAAGA CGGCTTAGTA ATTCTGAATC TCCTTCACAG GCGCTTCGGT GGAGAGGAAA
 ATCATCTACC CACTGTGCTT CCTGTCTTC TGTGACTG CTCATGCTTC TCTGCCAGTT TTTCTGTCTT AGGGTATTTG
 GATTTTGTAG TAGTCTGGAG CTCCTAGACC CAAGTATGGA TTTATTACCC ACTTATCTAC CCGATTGTGA TACTGAGGAT
 CCTATCCAAC AAAGGGGTGA AATCCAGGAT CCGCCTTC

SEQ ID NO:138: (Length of Sequence = 266 Nucleotides)

GATTGCAGGC ATGANCCACT GCGCCAGTC GAGTGGTAAT ATGTTMAAG GAAACCTTTT TCTGAGCAGG TCTCAAAGA
 GAGGTAAAA TACTGAGTAG ACCATMCTGT AACAGATGT MCTGTATYC GGGCTTTCAT ATTCCATTGA TAAAGCACAG
 GCAGAGCTCA GAGTAGATTT AAYGTAACTC TGAAGGGCAC TAGGATTTTC AGAATGGTAA ATAAGCATTG GCTTCACCTT
 AAATYCAAT CTGCATTGGG CTGTGA

SEQ ID NO:139: (Length of Sequence = 341 Nucleotides)

ACCTCGCTCA CCGCTCTGAC CACCGACAGG CAGAGCAAAG GATGCGGGAG TTGCTCTGTC TGCCCATCTA AGGGGACGTA
 GGCAGAGAAG CAAAGGCCCT TGCTCTCCCT CCATCCATCC CGGTGTGCTG GCGCCACGG AACAGGAGTC CTTCAACTAT
 TGCTGCCAG AGACCCAATT TTAGGGACTG TAGTCTGCAT CTGGATGAGC TGGGCTGTAG ATTGAAGTCT CAGAAGCAGG
 GAAGGTGGA AGGGGTAGGG TCCAGAGCC CATGGAGTTA TTGCTGAGAA GATATGCAGG GGACACATTT CCCAGGGCA
 GAGTAGAAGC CCTGGGCCIT G

SEQ ID NO:140: (Length of Sequence = 234 Nucleotides)

GTAAGGGAG TTGCAGAATC AAATGCTAC ATAGGCCAAA CAAAAAGAA GGCTTTTCA AAAACATTA AATTCACATG
 CAGTCTCAGA GACTATTTAG GCAAAGTTCA AGTTAGGAGC TTTTAGGATG TGGGANTAAA ACTTTAATKG GAGGGGAGGG
 CTGTCTCTG GAGAAGGAAG AAGCCAGACT TGTTAGACAG TACTCTAAC TCCTAGCCCA GCCTAGCGTG CCCT

SEQ ID NO:141: (Length of Sequence = 354 Nucleotides)

CAACTCAGGT TAGCAACTGC AGGAAAACCT TCTTCATTTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTTCTCAG
 AGAAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACTTTTA TTTTATCTC TTTCTCTACT
 CATGTGCTTA ACTGGTGAAG TGATCTGTGA GAAATAGATC CTTCTGATTC TGCATCTCAT TTCTTATGG CAACTACAAC

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AGGAGGAATC CAGCTGGAAG TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGCTGGGC
TCACTCACTC TGGGCTGCG CACTGGGGTT GTGG

SEQ ID NO:142: (Length of Sequence = 373 Nucleotides)

GTTTTGTCAA CACTTTTTTT TTAAGTTATT GGGTGCAAAA TCCCAAACCA GGATATGTTT ATGTCGTGTT GTTATGTTTT
TINATTTGAC CCTCCCTCT TTCAACCTAC CCCCTTTTAT ATCTAATGTA GAAAAAGCGA AATTGAATCT GGAAAGCAAA
CTGTTGTATA TAGTTGCGGT AACATCATG AAGAGAGAGC CGGGCTGTCC AGTTGTTTTT GAGACAGAGT CTCACTCTGT
TGCCAGGCT GGAGTGCACT AGCATGATCT TGGCTCACTG CAACCTCCCC CTCCCTGGGT TTAGGCGATT CTCCTGCCTC
AGCCCTCCCA AAGTAGCTGG GATTACAGAC CGTACCACC ACAACTGGGC TAA

SEQ ID NO:143: (Length of Sequence = 262 Nucleotides)

CCGCACCTCG GCCAGAGCG GCTGCAGCAG CTGCTMCCTT TTCCCTGCGG CCGCTCTCC AGTCCCTTTT TTAATTACCA
CTCCAMCTGC TGGGAACGGG CGAGAAAGAG GAGGAGCGA GAAACTCCCA CCGACCCACA GAGGGAGCAT GATTTCGGCA
ACTTCACCTA TCATTCTGAA ATGGGACCCC AAAATTTTGG AAATCCGGAC GCTAACAGTG GAAAGGCTGT TGGAGCCACT
TGTTACACAG GTGACTACAC TT

SEQ ID NO:144: (Length of Sequence = 384 Nucleotides)

GGAAAGCGG GACCCAAACA GTGGTGCTGG GGAATTTTTT CCTGTCCCC TTGGAAGGC TGAGTGGGTG ATGCAGCACA
GGAACAAGGC TTGACGTCA GAGGTCTCAT CTTCCTGTA ACAAGCATA AAGGACTTGG GGTTGAGCGT GTGTINIGGGC
TCAAGTGACC ATGCAAGTCC GTTCACCTCC TTCTTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTCTT
CAAAACAATA ACAGAAACAC ATCAAGCTTG GCGTCACTG AATTCAAGTT CTGATTTCTC CCGTCACCCC AGCAACAGTG
CCGAGTTTGA TTGTGACACT TTGACCCAGC ACTTGGTTTT GAATGTTCTT TCGGCTTGT ACCG

SEQ ID NO:145: (Length of Sequence = 324 Nucleotides)

CTACATGGAA TCATAAGTKT TCCTAAAAAA GGAAGACAGA TTTGAAGACA GAGGAGGAAG GTGATGTGAT GATGGAACA
AGGGGAGAAA ACGCAATGTG ATGTGGCCAC GAACCAAGTA ATGAGGACAG CCTACAGAAG CTGGTCAAG CAAGGAAACA
GATTCTCTC TAAAGTCCCT GGAGAGGGCC TGGCCATGCT GACACCTTGA TTTTKTCCCA GCAGAAACTC ATTTTGGATT
TCTGGCTCC CAGAAAAGTA AGGGGGTAAT GTGCTGTTTT ATGTCAGGTT TKGGGTAATT TGTTTATGTC AGCCATCGGG
AAGG

SEQ ID NO:146: (Length of Sequence = 355 Nucleotides)

TTTGCTCCTT TCCTTCTTA TCCAAGCAAG GGTGTGGTGA CAATGACCTG ATCGGGGTTT AACGCGGCT CTGTCTGCTC
ACCAGACCTG GGGTGCTGAG CTCTGACCAG CCTGGGCAGC CCAACCCACA GGAAGTGGG TTTTATAGCT GGGTCTTCAG
GAAGGGGTGG AGGCTTTGGG AGTGGCAGCT CCGGCTCC CACCACCCA AGCCAGAGAA TGGGGCAAAC TTGTATGCAT
GGCTTATCTC TAAATTACTA ATCTGCTTCG GACCAGACTC ATCTCTACAG TATAGAGITA GAGTTATTGC TTCTATGACA
GGTGTCCAG AAGCCCTGGG TGGCTTTAAA GTCTG

SEQ ID NO:147: (Length of Sequence = 337 Nucleotides)

CAGTTTTCTG AGTTCCCGTG TGCTAGACTG GCCAGAAGAG AGGGTCTGGG GCCTGGTCAC TCGGCCACTC TCTCTGTTT
CTGGCTCTT CTCCCTTCAC TCCGTCAG TCTGGTTTTG AGAGCAGGGG CTGTTCTACA GCACCTCAGG GAAGGGAGGA
GAGATACCTG CTGCTTCCAT TGCTTTTCCC TTCTGGAGT CGATGCCTTT CTAAGGGTTG GAGCTGCTCC TTGCAGGGGC

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GGGTCAGTTT CCCAGGCCAT GCCGGGGGTG GCCATCTATG CTAGGGCTGG AAGCTGAGGC TGGCCGCCAA CTGTGGGGCT
GGGGTGGGGG TGGGTGG

SEQ ID NO:148: (Length of Sequence = 278 Nucleotides)

GGATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCGGCCC AACCCCATC GTCACCTCTGC
TGCAACACGA CACAAAGGTT TAAAGATCTG GGCCCAAAGA CTCTGGGACC CTTCAAGCAA GTCAGGTGGA AGAAGGTTTC
CCCCCCCCC ACCAGGCCTG TTTGTCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG ATGCTTGATA
GGAAGATCTT TGATATCAAT GGCCTAAGCT CTGCTCAT

SEQ ID NO:149: (Length of Sequence = 368 Nucleotides)

TTTTTTTTT GTTTTCAACA AACTTTACTA AATAACCTG GAAAGGCAAT GAACGATCTG ACAATTTAAG CTCTAATGAT
TTAAAGCTCA GCTAGAAGAA AGTGAGGCAT GACATATACT GTCAACGGAG GGTGAAGGAG GCAGATTTCT GGAAATGCAA
TGATCCACCA CATTGTCTTC AAGGAGAAAC CTGCAGACAT ATTTTCAGGT CTTGCTAAGT AACAACTGTT TATTTGTAAAT
CAATACATT GGGGAAAGTC TGCTATGTAG CTAAGGTCAC TGTGACCACA GACCAACAGA TGGAAAGGAA AAAGGCACCTG
GACCAGCAAG GAAAAATACA TCCCCATCCT CAAAAGAATT TTAAGGTG

SEQ ID NO:150: (Length of Sequence = 367 Nucleotides)

TTGTGAAATG GGCTGGGTA GATAAGGAAA AGAACCCTCA AGAGGTTAAG TGATTGCGG ATTTGCCTAA ATTATACAGA
AGAGTCAGCA CCAGTGCCCA GGCTTCTGA TTCTTAGTGC AGTAAACACT AAGCACCATC ATTCCATTTC ACCACACTCC
TGTCTTGCTG TTGTCTCAG CTAAGAAAGC CTACCCCTGA GTTACCCTCT TCCATCTAG AGCCTTCCG CTGCTGTCT
GCCCCCTGC GATGGGGACT TCTTTGGCCC TTCTACCCA GCCAGCCTC TGCCCGTTTT CTTCTCCTT TCCACTGCGG
CTGAGCTCTT TTCTCCTTCC GAGAAGCCTT TCCTTCATCT TTCTGG

SEQ ID NO:151: (Length of Sequence = 366 Nucleotides)

CCCAGCGGCG CGCTCCCTC CTCTCTCTC CATAGGTGGG GGTGTGGGC CTTCTTTTTT TTTTGTCTT GGAGGGCAGT
TAAACTTCTC CATTTGCCCT TCTCTTACA CCCAAATGCC AAAGGACACT TTTCCTTTCT TTTGTGGGTA GTTGCAGAAA
AAAAAATTC CTATGGGTTA CTGCCACTTT TAAATACTTT GTAACITAAA GGCAAAGTAG TATGTCACCTG TTTCTTTTCC
CTGTAGTTA CTTTGTAGGT TAAACATCTT TCCATGTCTT TATTGGTCAA ATACAGTTCC TYCTTTTGTG CAATGTTAAT
CCTAATATGG ACCATTTTTC CTAATGGGAT TACCGATTTT TTAAAA

SEQ ID NO:152: (Length of Sequence = 269 Nucleotides)

GTATTTCTGG CAAGTGCTTT CAGGGCCCTC CAGGTTTGG CTGGTCACCA TGGAGGGGGG GTTCAGGTGC TGAATTTAGG
GACCCAGCA TCTCAGGT TTCCCTTCC ATCTTCCCA GTGGCACTGT GTCTGAGCAG GTGTGCCAG GTGAGGTGT
ATCCACTGTG TCTGAGCAGG TGIGCCAGG TGAGTTGTA TCCACTGTGT GTGAGCAGGT GTGGCTGTTG CAGGTGGAAG
TGGGGATATN TGGGCACCTG GGTGCCATT

SEQ ID NO:153: (Length of Sequence = 260 Nucleotides)

TTTCAGGATT TTATTTAAAA TTTATTGTAA TGGGGTCCGC GCAAAAGGAA GGGGTGGAGG GTGGGTACA TGCAGGGGAC
ACAGGAACAN GATCCACATG GCCAGGNC CAACTTCTTC TGTCTGGGG AAGAGGGATG AAAAGACAAG ACCAGGGCTA
NGAGCTGGGG TGGAAGAGG GAGGGNAAC ACTGGCTGCA TTCCCNAC CCCANGANG ACCTATAGGC CCTGGACCCA
TGGGTCACCC TGGGCCCTAG

SEQ ID NO:154: (Length of Sequence = 405 Nucleotides)

TGGAACCTGT GAGTGGGGAC CCATGATGTA TGGGTCTCAC CTGACTTGAG GTGAATTTTG GAGTGAAGGG CCTGAGGTG
AGCTCCCAGG TCGTCTGTG TGGGCCAGGC CTGGTTTTC CAGGGGCTGA AGGATCCCAG TCCACCTGTG TGCATGTCAG
GGCTCGGCCG GGAAGAAGCC AGCAAAGTCC CCGGTGTCCC TTGCTGAGTA TTCTGTGACA GACAAGCCTC CATTAAAGCC
ACAGCAGTGC TACCCACCAC ACACACCTTG CTGGCCCGGC CACCACTGCT GGCTTCAGCC CCTTACGAG CCCATGGNTT
AGCAGACCCT CAGATGTAGG TCAGTGGCCT TANCTGTNTC TATCCATGCT GTTAAACTCC CTGCCTCCAA CTGGGGGTCA
CCAGT

SEQ ID NO:155: (Length of Sequence = 40 Nucleotides)

CCATGATCTT ATTTATTACA TCTAGTTTTT CTTTATACCT CTAAAAAAA GTGCCTTTTA GATTTACAGC TTGTGCTTCT
AAAGCAAAGG TTAAACATC ATGCCCCAAA GGAAAACAAG GTAAAAAGGA AGCTGCCATA TAAGCTCTTA AAANTGTAT
GTTACAAGGT TCTAAAATCT CTTGAGCACT GGTGTGTTGG TAGATTGTAC GACACTGACA TGGTGTCTGG GAGGGTCATT
TATCTGATGG TTGGAGCAGC ACCATGGGAA AGCTGCCAG ATGCTCTACT GAAGTCTTG GCTGTGCACA GAATGGGCC
AAGGGCCAGN AATTCATGAG TCCGGGGAAC TTTGGNGTC CTTACTCAAT CTCCTTAGTG CTAAAGNTC AGAGTCTCAA

SEQ ID NO:156: (Length of Sequence = 443 Nucleotides)

GTCTCTGGA TTGCTTCGTT GGTTCGAAC TTTAAGAATG GCAAACGTG ATTGGNTCCG ATTAAGACAA GCTTTGTAGT
TTCTTCGTG TAAACACCAA ATCCCGCTG GGCCATGAGG TAGCAGAAGT GGGCCGCATC CAAGAGGCC CTTGAAGCCA
GAGTGTGCGC CATGGTAGCC ATCGTCTGG ACTCGAGTC CATGTTGTG TTCAAGTTGG ACAAGACCAT GCGAGGTGC
GGCTCCAAAT CTCCTCATTT CTGCTCTCCA CAGCAGTGG ACGCGGCAG CATCCGTCCG GACATGAGCT GGTAGACTGT
CTTCAGAGGG TCGTTGATTK GGGAGGCTTT TTAGCAAACC TKGGTCATGA CTCGGGCGTG TGTCCGGCTG TTCCATCTTA
CTTGCAAGTA GCAGAGCGTG ACCCCACAAG GCCATTCTTA ATT

SEQ ID NO:157: (Length of Sequence = 383 Nucleotides)

ATTGGAAAGG GTTTTAAACG GAGTCGGAAC CTGAGTAGAT TTCCAAATTT TACAGCCAGG ACTACAGAAG TGCATCATTC
TAGAATGTT AGACCTGAGT AGCTTATACA CTACAGAGCA CTTTGCTTAT TTGAAAGTAA TTCAGCAACA GGTCACTTTG
GGATATAACC TGAACCTTTT TTTGGAGTGG GGTGGGTAGA CTACAGTAGA CACAAGGGCT GGACATGCAG ATGCTTAGGG
GATTAGCGTT TTTTATAATT TGTCTGTTT GTCAGTTCAT TCCTGTGTGT TCTTACCTCT ACAAAGGTAC ATTACACATT
TTARGTTTTT TAGTGACCTT TAACCATGTT ACTTGAAGCA TTTTGAATA TAAAGCTATT TTA

SEQ ID NO:158: (Length of Sequence = 241 Nucleotides)

TGGTSTGTGG CTCAGCTGCA GCGGCASGTA AGTGGGTSTC CAGGGGAGTG GACAAGCAAT TCTCTGTCA TTTGCAACTT
TCTTCAGGAA CTCAGATAAA GAACACTTGG ATAACGATGA TCCCTGTAGA GGGATTTTCAT CTGTACCATC ACACATGGAA
GAGGAGTTTC TAGGTCAGGA AAGGCAGCTN CTAAGCTAAA GGTTCCTTGG TCCCTTNGTC CTGGCATGCC TTAAGGAGGG
G

SEQ ID NO:159: (Length of Sequence = 224 Nucleotides)

CTGTCAAGTAA TGGCTCACTA AAGGGCCAGC AGTTTAAATT ACACAGGTG CACTAAAAGC TGCAGCTTTG GCCAGGCAAG
GTGGATCAG CTTATAATCC CAACACTTGG GGAGGCGAG GCGGGCAAAT CACCTGAGGT CAGGAGTTCA AGACCAGCCT
GGCCAATATG GTGAAACCTA AGCCTCTACT AAAATTACAG AAATTAGCCG GTCGTGGTGG CACA

SEQ ID NO:160: (Length of Sequence = 377 Nucleotides)

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GGAGGCTGAG GCGGGCGGAT CACGAGGTTA GGAGATGGAG ACCATCCTGG CTAACACAGT GAAACCCTGT CTGTACTAAA
 GATACAGAAA ACTGGCCGGG CGTGGTGGTG GGTGCTGTGA GTCCAGCTA CTGGGAACT CGGGAGGCTG AGGCAGGAGA
 ATGACCTGAA CCCGGGAGGC GGAGCTTGCA GTGAGCAGAG ATTGCGCCAT TGCACTCCAG CCTGGGCGAC AGAGTAAGAC
 TGCTCCAAA AAAAAAAAAA ATAATAATCA AAGCTCTTGG ATTTATAGTT TGGTCCCAG CCTGTTTTG ATCTTTCCTT
 TATCCTGTTT TATTGCCATT TACCACGTCC TTTTGGAAAC ATCCCTTTCA ACTGCTG

SEQ ID NO:161: (Length of Sequence = 273 Nucleotides)

GCAGCGGCGC CGGGCGAGGA GGCGGCAGGG GCGAGGAGGG GGCGGCGGGT GGCGACCCGC AGGAGGCCAA GCCCCAGGAG
 GCGCTGTGCG CGCCAGAGAA GCGCCCGCC AGCGACGAGA CCAAGCCGC CGAGGAGCCC AGCAAGGTGG AGGAGAAAAA
 GGCGAGGAG GCGTGGCCA GTCGCGCT GCTAGGCCCC CTTCGCGCGG GCGGCGCGG CCCCCGAGC AAGGAGGCAG
 CCCCCGCGGA GGAGCCCGCG GNCGCGCAG ACT

SEQ ID NO:162: (Length of Sequence = 286 Nucleotides)

TTTTGGTCAA ATAAATCAGA GTACTACAAT CATCAACAT CTGATTCATT TAACATGTGA GCATCTATAC CTGCCCATTT
 GTGTGAATAT TCAGTATATA TCTCATACCT ATTCTCATGC CTTCAATTTAT TGTTGTTATG GCTGTAGATA TGGAAAAAAC
 AGTAGCTGAG ACATTTTTAT TATGAATAT ATTATACCTT AATCAATCAG TCAGAAAATG CTTAGGAAGA AGAAATGCAT
 GATTGTAAAT GCATGATTTT AACATGCTAC CCGGCCAACA AAGTTG

SEQ ID NO:163: (Length of Sequence = 342 Nucleotides)

TGCCCCAGGA AGACAGAACA TGGAGAACCG TCAAGGCAGG AACCCACAG ACTGTCCCTT CCAGCCCACA CTCTGCCACC
 TCCTGGCCCT GTCCCAATTC TGAGCCAAGG CCTCCCGAG GCAGAAGTTG CCTGGTCTC TGTCCCCACA GTGACCTGAC
 TGGGGTGAG GGAGAAGGAG GAGAGAGCCC ATGTGTGGTG TGTGTGCCCC TGAGAATTC GTGGTGACTG CCTTTGGGAG
 CCCGCAAGTG GCCAGAGGCA GGGGTAGCTG AGTTCTGGG AGACCCCTTT TTTTCCCCA RGTTCCCAG AGGGCAACGC
 CATCAGTAGC AGTGTGGTGT TT

SEQ ID NO:164: (Length of Sequence = 392 Nucleotides)

ATTACCCGGG CCCCCTCC CTAAACAGA TCTACGGACC TTAACGACG CCATGCTGAG GCTCATTCCA TCCCTGCRGA
 CGTATGCAGA GCGCTCACT GCTGCCATGG TGGAGTTCTA CACCATGTTA GGAGGAATTC ACCCAGGATA CACAACCTCA
 CTATATCTAT TCACCCGTG AAATGACTAG GTGGGTGAGA GCATCTTTG AAGCGTGAG ACCTCTGGAG ACCCTGCTG
 TTGAAGGCCT CCTTCGGATT TGGGCACATG AAGCTCTGG TCTCTTCCA GATAGACTCG TAGGGGATGA GGAGAGGCGT
 TGGGACTGAA TGAGAAGATC GACACGGTTG CTCCTGAAGG CACTTCCCT AACCTTCGGC AGAGAGGAGG GC

SEQ ID NO:165: (Length of Sequence = 406 Nucleotides)

GTTATAATTA TCTGTTTTAA TTATTTATG TTTATCTCT ACTGTGTATA ATGTAGAAAT TAACTTTAC CATAGGTATA
 TACATATTGG AAAAAGCATC TTATATACAG GGTGTGTAC TATCTGTGGT TTCAGGCATC CACTGGGGGT CTTGGAACAT
 ATCCCTTGCA GATAAGAGGG AACTGCTGTA TCCATAGAAT AAAACACCC CATCTTGAAG ATAGGAGGTT CTGTAAATTG
 GGATGGGGTC AGGGAATCTG AATTTTAAAA GTTTCCTATG TGATTTGATG CCCAGCCAAG GGCTGGGGAC CACTGTCTTG
 AAATATAATG CTGAGGAAGA TACTGTCTTT GGATTTTCTT GGTAATTCCG AGTGCAAATT CTCAGGCTGG AACCTTATGG
 GCCTTG

SEQ ID NO:166: (Length of Sequence = 453 Nucleotides)

138

GAAACTTTTG CCATGGGTCA GTTTTATTGG AAGTTCATTT TCCTGAATGT TTGGAAGAAA GTCTAGTGAC TCAGGATAGC
ATTTCTAATT TCACAGAGTT ATTTTTCCTT TATGAAACAC AGATTGCCTT TGAGGTCTCC TGTTTCTACT ACTGCCCCTC
ACTTTTATGT GGGCCTCCTC TTTCCTTTGT TTCGAGAGAA CCTTTTCCTG TTCAATTCTG TTTTAATTTT CAGCAGTTTT
TTTTCTGTGT GAGTGAGGCT GTTTCCTAGC AGGGAGGTCT GGTGAGTCAT TTTCAAGTTC ATCAGGGCTT CATCAGGGCT
TGTCCACTTC AACCTTACG CTATAGNCC CTNIGCACCA TCTGCANTCT TCAAAATGTG CCCACTGGTT CGTCCCATG
GANGGCTTGT TGGTAATTG GGCTTTTAGG GGGGGCCATG GAAGGAGCAA ATC

SEQ ID NO:167: (Length of Sequence = 285 Nucleotides)

TTTACTCTTA AAAGTGTAC AACAGAATCA TGGACTGACA CAGGTAATGG CTGAGCCATA AGCAAATCGA GAAGTACAGA
AATGTCCAC CCCAAACAGC TGCGGAGTAC ACATCACACA GGGCCTCTGG TCCCGGCTT CTCAGGTGCT CTGGAGTGA
GGATCCTTTG AGGGAAGTCT GACCACTCT GTTGTCTACC TAGAGAGCAC GCCACTTGGG CCACCTACCC CCAACCTTTG
GCCAAGGAG TGAAAGGACC TGAACCTGT CGTCAACCTC AGCAT

SEQ ID NO:168: (Length of Sequence = 327 Nucleotides)

CTAGAGGGCA CTCTGTATAC CCGTCAGCTC CTGGAGCCAT TCATTCTATG CTGGGCAGAC AGGCTGTGAG AGGACATGGG
GGACGGTGA AAGGNTCCAA AGACGAAGCT GINGTTTATC CTRGTGGTT TTACACAGGG AATGATGAAA CATTGAAGGG
GTTTAATAAG CTTTTCCTAA AACATTTTCC CCTAAACAG GCTGGCACTA TGTCGAAGCT GCCCAAATTT GAGATTGATT
TACCAGCTGC GNCCTAAGTCA ACTAAACCCA NGCCTTTCCG AAAGAGACAT CGCAANTGGC TTACCCAANG TANTGTCCCG
TTTTGAG

SEQ ID NO:169: (Length of Sequence = 346 Nucleotides)

GGTGTATGG AGAGCCGGCC GTCTCCAGG GGTGAGCTGG GGAGGCTTCT GCGGTCTGG AGTCCCGGG ATGGCGCCAG
TTCCCCAGCA AACCCTCTCC AGAGCTGCCC CCGATGCAC AGACAAGGAG GGGGCTTGG AGTGACTTGA GGCTGTGACC
GGRTGCGCT CCGTGTGGG AAGTGAGTCC TCTGTGGCCA AGAGTTCAGA GTCTCCCTG AGGCTGAGTC GAACACAGAC
CCGTGGCCCT CATAAAATTA AACATAAAG CACAAAATG GCGCAACCA GACAGCATTG GCTTTCAGAC AGGCAGGGAC
ACGGGGGCCC CTTCGTGTG ACCTGT

SEQ ID NO:170: (Length of Sequence = 398 Nucleotides)

TTGACCTCAA CTTACTGAGC AATGCCGTAG CTATGGAATA GAAGCATTTG TTGCACTCTT TTTGTGAGCC AGGCCCTGTA
GGAGGGATTG TGGATGGCAA AACCTCAGGT TCTGCCAAA TCCTCCCTT GGGGGCTGGA GGGTCTCTAG TTAATTTGCA
TTCCGGTGCT TAAGGCCACT TTTGGGTAGA GGTTTGGCAA GGATGGAGTG TCCAGACCTA TGATCCTCTA AGAAGTTTAC
CTTTTAAAA CAGCCACCCA AATGGTGGTG GCGTGGGAG CAGGTGGTGG TGAAGGGACT GGGGGTGTCT GGCCATKGCC
ACGTACCAGA GGAGACTCTG TGAGCCCTCT CCCTGCCTGA GGGACACTTA ACTTTTATAG CACTACATAG GGTCAACG

SEQ ID NO:171: (Length of Sequence = 321 Nucleotides)

AGACAGCATC TGGCTCTGTC ACCCAGGCTG GAGTGCAGTG GCGCAATCTC GGTTCAGTGC AACCTCTGCC TTCCAGGTTC
AAGTGATTCT CTTGCCTCAG CTTCCCAAT AGCTGGGATT ACAGGCATGT GCCACCATAC CCAGCTAATT TTTGTATTTT
CAGCAGAGAC GGGGTTTAC CATGTTGGCC AGACTGGTCT CGAAGTCTG ACCTCAAATG ATCTGCCCAT CTAGGCCTCC
AAAAGTGCTG GGATTATAGG TGTGAGCCAC TGCGCCTGGC CTTGGGTAA ACCTTCAA TGCAMCCAAC CATTAAAGGT
A

SEQ ID NO:172: (Length of Sequence = 293 Nucleotides)

139

GAAACTTATA GTCTTGCCCTC CCAACCTTCT GAACACTCCA GTAGAAAAAT CTTCTCGCCT ACCTTTATCA CCCCACGACC
TACTAGCAAT TCTTACTCTC AAAAAAATC TTTTCTGAAA AATCAAGACA GAGTGCAAAC AATCAGCATA ATTTTATTAT
GACARAACIT TTAATTTTA TCCCCCTCTC TGAGAGKTCT GCTAGGACTC CTTGAGATAA GTGAAAAAGA AAKTTTTTAA
AATTTATTCT CAAATCCGAA TTCCAATCTG TATAAAAAGG GCGATTCTCC CTC

SEQ ID NO:173: (Length of Sequence = 282 Nucleotides)

GCTTGGTCCC GTTCTCAGG AAAAGGATGG ACCTTCTCTT CTTCTCAGAT GGTCCCTTCC ATTCCCCTGA AACCTGCATG
AGAGCTCCTA ACATGTTTCT CCAATGCAAT CAAGCCTAGA CTCCAAATGT CCTCCCAGCT CACCTCCATC TATGCATCTC
ATCTCTGGAT TTGGTGATCA GACTCTATAT TGACAGTAGG ATCTCAAACC CTGCATCCAT CCTTCTCTCA GCAAGCCCTG
CTAGCCACAT GAGGAACAAG TTTCCGTGTC TTCATGACTT CC

SEQ ID NO:174: (Length of Sequence = 353 Nucleotides)

CAAGAGGTGG GAGAGGTAGG GGGCAACTAC AGCTCCCCAC CAGCCCCACC AGGGGGAATG GACCCCTCCC TGCTCTCTGC
CCAAGTGGCT CCCCCTGTAT TATGGGGGGG ACTTTGTGCA AACTCTGCCC CGAGGGGGTG GGGAGGGTGG AGGGTGAGTG
TGAAATGGCA GCGGTTGGGG CTGGCAGCTG TGCTACTGGG CACTGGGGGG CTTGTAGGGC TCAGGAGGA GGGCCGAGAA
GGTGTGACC TTGTCTGCCC CCGCACCTC ATGGGGTAAC AGCGGCAMIT TCACGATGTG GAAGTTCTTC ATACAGGTCC
TCCAATCTGG TCCAGATACT TGGCCTGGGT TCT

SEQ ID NO:175: (Length of Sequence = 394 Nucleotides)

GCCCATGCCC TTGTGTACAT AATCTCTAAT ATTTATATAT ATTGATATAG AATCTCTCTT ATAATATATG TCATAGAATC
TCTCTTGGGC CTGGCGTGGG AATGTGACAT TAAGAAAACA TGCTAAGACT GGCCAGAAAA ATGGATATTT CCCAGACCTG
GAGGATGGTG TGTTGGATGT ATAGGTGAGG TGTGGAGAA GATAATAAAC TCATTCCCCA AGATACCCTC TTCAACACAA
GGACAAGAAG GAAGGTGTGT GGTGGGGGAG GGGACAATGG AGGGGGAGGA GTGGAAGATT TGGATTTTCA TTTAATAAAG
TCAATTGAAA AATGAAAGTG CACCCCCCT CCAAAAACA GGAGATTCAT TIAGCAAGAG CCGTTTCATT CACA

SEQ ID NO:177: (Length of Sequence = 381 Nucleotides)

ATTGGGACGG GCCCCCTCT GAGGCGACGG ATCGATAAGC TTGATATCGA ATTCCITGAT NTTTTCTAGT GTTATGGTTT
TCTCCCACTC CAATAACTWT TCATACCTKT GGTCTKAGTT TTTCCATCTA TAAATCATG TGCTAAATAA TTAACATCA
TCTCTATCAT TGTCAGACTA CACAAAGCTT CCAGCCTGGG CAACAGGAAC CCTGTCTCTA AAAAAAATAC AAACATTAGC
CAGGTGTGGT GGTATGCGCC TGTATTCCCA GCTACTTGGG AGGCTGAGGT GGTAGGACTA CTGGGCTTT AGAGGTCAAG
GCTGCAAGTG AGCTGTGATT GCGCCACTGC ACTCCAGCCT GGGCAACAGG GCAAGACCCT G

SEQ ID NO:178: (Length of Sequence = 443 Nucleotides)

GATTTTATTC AAACACAGGC AAGAACAATG ACCTTCAGAG CTGGGTAAAA ATAATAAGTT AAAAGCATGG TTAGAATTTT
AGACAATCAG ATAAAAAGTT TGAAGGAAGT GATTTCCCTT TCCTCTCTTA ATTGATTAAT TCAACACAGC ATAAAAATAA
TTTGTATCTA TAAATATCC TTGTCCAC ACAATGAAC TGGAGGTGGC CCTAGGATTT CCTTGACTAT GCACAATGCA
CACAATCTAC ATGTCCCTCC TCCCCAATT TTAAGGCAAA AATGGTCTG CATCTTCAGG CAGAGGGTGG GCTCATGCCA
GCAGTCAGCT GTGGTCAAGG AACTGGGGG TCGTTTTYCT CCACCGAAAG ATGCTGCTT TGGGTCCACT TTGGGCGCGG
GATCCCATTT TATTTTCTAG CTTGTGCTC ACCACAGGA AAA

SEQ ID NO:179: (Length of Sequence = 325 Nucleotides)

140

TGGGGGACCA GCATTGCTCC CAGCTGAGGG CGCGTCTTC CTCACCACT ACCGGGTCAT CTTACGGGG ATGCCCCAGG
 ACCCCCTGGT TGGGGAGCAG GTGGTGGTCC GCTCCTTCCC GGTGGCTGCG CTGACCAAGG AGAAGCGCAT CAMCKTCCAG
 ACCCCCTGTG ACCAGCTCTT GCAGGACGGG CTCACGCTGC GCTCCTGCAC ATTCCAGCTG CTGAAAATGG CCTTTGACGA
 GGAGGTGGGG TCTTACAGCG CCGAGCTCTT TCCGTAAGCA GCTGCATAAG CTGCGGNTAC CCGCCGGACA ATCATGGCCA
 ACTTT

SEQ ID NO:180: (Length of Sequence = 213 Nucleotides)

GAGCATGCCC CCGGAGTCCC CAAGATCCTG GTGGGGAACC GCTGACACT GCGGTTCAAG CCGCAGGTGC CCACGGAGCA
 GGCCAGGCC TACGCCGAGC GCCTGNCGT GACCTTTTTT TAGGTCAGCC CTCTTTGCAA TTTCAACATC ACAGAGTGT
 TCACGGAGCT GGCCAGGTTG GINCTGCTGC GGCATGGGAT GGACCGGCTC TTG

SEQ ID NO:181: (Length of Sequence = 219 Nucleotides)

AGCTTTATCA CATTATACAC AAACATAGAA AACAGTGTIT CAGAAGAGAA GCAAAGGCCA TTGGCTTCAA ATATTTATGC
 AACAAATGAAA ATGTTCTCAG CCCTTAAATG AGCACTGTGT ACTGTGCAA CAGTGAGATA ACTAGTCAAT GGAAGAGTTC
 AACACTAGAG CATGTATCTC AGTCTGTCT CATATTGCTA TAAAGGGCTS CCTCAGACT

SEQ ID NO:182: (Length of Sequence = 451 Nucleotides)

GTCTTACTCT GTTACCCAGG CTGGAATGCA GTGGTGTGAT CATAGCTCAT TGCAACCTCT GCCCTCTAGG CTCAAGTGAT
 CCTCCACCT CAGCCTCCCG AGTAGCTGGG ACTACACGTA CATGCCACCA TGCCAGCTA ATTTTTGTAT TTTTGGTAGA
 GACGGGGTTT TGCCATGTTG ACTAGGCTGG TCTTGAATC GTGAGCTCAA GTGATCTGCC TGCCCTCGGC TCCCAAAGTG
 CTGGGATTAC AAGCGTGAGT CATGGTGCCT GGCCTAGTTT GCTCTTATTT TTTTTCATC TTTGCAGTTT CTAGGCCACT
 GGGAACAGGC TGCAAGCTC AGAGTCCACA GCTGTGAGGC TCCATGTGTC ACCATCAAAA AATAAGGTGA CGAGAGTCCT
 GGGTTTCCCA GTGTACGGC AAGAGGGGTT ACTGCTCAG GGTACACACA G

SEQ ID NO:183: (Length of Sequence = 444 Nucleotides)

CCAAGTTGAC CCGCCGAACC ACCGAC-GGA AGAGTGAGTT CCTGAAACT CTGAAGGATG ACCGGAATGG AGACTTCTCA
 GAGAATAGAG ACTGTGACAA GCTGGAAGAT TTGGAGGACA ACAGCACACC TGAACCAAG GAAATGGGG AGGAAGGCTG
 TCATCAAAAT GGTCTTCCCC TCCCTGTAGT GGAAGAAGGG GAGGTTCTCT CACACTCTCT AGAAGCAGAG CACAGGTTAT
 TGAAAGCTAT GGGTTGGCAG GAATATCCTG AAAATGATGA GAATTGCCTT CCCCTCACAG AGGATGAGCT CAAAGAGTTC
 CACATGAAGA CAGAGCAGCT GAGAAGAAAT GCCTTTGGGA AGAATGGCTT CTGTCAGAGC CGCAGTTCCA GTCTGTCTC
 CCCTTGGAGA GCACTTGCAA GCAGAGTTTG AGGCTCAGCA CCGA

SEQ ID NO:184: (Length of Sequence = 399 Nucleotides)

GGCAGAAAGA GGAAGGAGAC AGTGCCAGGA GGAAGAAGGA AGGAGTCCCT TAGCTCTCTT CATTTGCCCC TTACTTCTCT
 GCTATCTTCT TCTCCTCTTC TTCTCTCTCT TGCCINTATG CCTGTATTTT TGGCAATATG ACAGGCTGCT CTACCCAAGA
 TCAGAATCC AAAACCACTC CCACCCCTGA AGGTGGGGAG GTCTTAGCA GCCCTGGGTG GCTGCTGTG CTCAGGTCCT
 CAGCTCCATG GGAAATAAAA ATGGCACCTT GAATCTCTAG GATTTTGTCA CTTTGGAGTC ACAGCAAAGT TCTCTTCTCT
 TTGTCCCCC GTTGTCTGCT CTTTGGGTTA TAGGACATGG TAAATATTTA TTAATTTTCT GGAACCAAGT TTTTATTAG

SEQ ID NO:185: (Length of Sequence = 263 Nucleotides)

CAGAGACACT GGCCAGCTA TTTTCAGCAG GGACAGAGTC GAGGCTCACT GGGGATGGCT TCAGAGGACA CTGAGGCCCC
 TCTCAGGGAG GGCAAGGCAC AGATACCCCA AATTCCACCC CACGTCCCAA AGGTCTCCCA GCGGGGCTGT CCAGTCCATG

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TCAGCAGAAG GCTCTTGGGC GTGTGAGGGA GGGTCTTGGG GAACTAAGCG AAGGAGGCAA ACGCCAGGGC
CCCTTGCAGGCACC ATGTGCACCA CTT

SEQ ID NO:186: (Length of Sequence = 343 Nucleotides)

GTTCCAATAG CTGGTTTTAT TCTCAGCACA AAAGGGCCCT GTGTAAAAAC CAGAAGGATT TTGTAAAATA TCAAAATGAA
TATTTGGCCT GGAGGTTGGA AAGTGAAGCA AGGCTGGACA TAGAAAAAAA CTGATCAGTA GTTATTCAGG ATATTATTTA
GGATAAATGA AATAGGAACT TAGGGGCATC TCTTACTTTT CTACAGGTTC TTATCTGGGT CAATGAAGAA ATTGTGTTTA
TCTTGCTGCC CTTCATCAG GTTTTTTGCA CTAATGGAAA AAAGCCGGCC GAAAAACAAA ACCCAATCCT TTCAGTCCTA
GCTTTTACAT CTGCCCTTG CAA

SEQ ID NO:187: (Length of Sequence = 229 Nucleotides)

GGTGGGCTC CACCCCTTCC ACGTCATCCG CATCAACAAG ATGTTGTCTT GTGCTGGGGC TGACAGGCTN CAAACAGGCA
TGCGAGGTGC CTTTGGAAG CCCAGGGCA CTGTGGCCAG GGTTCAATT GGCCAAGTTA TCATGTCCAT CCGCACCAAG
CTGCAGAACA AGGAGCATGT GATTGAGGCC CTGCGCAGGG CCAAGTTCAA GTTTCCTGGC CGCCAGAAG

SEQ ID NO:188: (Length of Sequence = 284 Nucleotides)

CCAGCAACTC AAATTCACCA CCTCGACTC CTGCGACCGC ATCAAAGACG AATTCAGCT ACTGCAAGCT CAGTACCACA
GCCTCAAGCT CGAWTGTINAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CKTCACIATK TGATGTACTA CGAGAKGTCC
TACGGCTTGA CCATCGAGAT GCACAAACAG GCTGAGACCG TCAAAGGCT GACGGGATTT GTGCCAGGT CCTGCCCTAC
CTTCCCAAG GAGCACCAGC AGCAGTTTTT TGGGGGCCAT TGAG

SEQ ID NO:189: (Length of Sequence = 215 Nucleotides)

GGAAGGATGA GAAACAGATT TCTGCTCACT TCATGGGCTG RCTTGRATT GACGATGGTR CAAACCCAG ATTATCCTCA
TGTAATTTAT GAAGATTATG GAACTGCAGC GCATGACATC GGGGACACCA CGAACAGAAG TAATGCAATC CCTTCCACAG
ACGTCACCTGA TACAACCGGT CGGGCACATC TCKGGCCCTA TGCTGCGGT GGTGC

SEQ ID NO:190: (Length of Sequence = 153 Nucleotides)

TTTCATATGG AAAGAGCTAG TACAATCACA TATTTGAAAG GAGAAACAAT AGGTACTGAA CCGGAGGGAA AGGGCGAGGG
TGAGTGTGCC AGCACCGGCC TGGTGAATCC ACGATTGGT TTCCCATCCA AGGGTAAGTT TCCCAAATA CCG

SEQ ID NO:191: (Length of Sequence = 316 Nucleotides)

GTATTTATAC ATTTATTTAT ATATGTATAT TTACTTCAGA NGAAACGAAC ATTTGGGGA CAGGAAGCAA GCAGGCCCGG
GGCTGCTTCC CTCCTGCCC ACCTCAGAGT CAGAGTTGGC ACATGACAAA TACCAAGCTC AGGGTGAAGA ACTGGGAGTT
AACTGGGAAG TAGGGKGGC TCTATGCACA CGCAGGCTTC TAAGGGTGCA CGGTATGGGC AGKKGGTTTG CACTGGGAGG
CCCTATGTAC AGCTTGAAAG CTAGGGGTGA GATTAGCCCA GTGACTACAG GAACATACGT CAAAGTTGAG AGAAGA

SEQ ID NO:192: (Length of Sequence = 360 Nucleotides)

GTGGTTTTTG GTTATATGCA GCTTTTGAAT AGCATGTATT GTGTCTTTT CTCTCTATG AATAATTTTA TATTTATGTC
TACTTCTTGA AAGTTTACTC TTTGATGCTC TAAGAGAACA GCCAGATGGT TTATATGAAT AANCTTTATC TGCAGGATGG
TGGATTGGTA AATNAGGAGA ATGTTGTTTG AGATATCAAG ATTTATGTCT GGGAACTAAA ATATATAATG CCAAATGTGT
TTTGTCAAT TACTAGAGAA TTCTGTGCAA ACATATCATC TCTTCACATG CTGCACACTT TGCTTTTTGT TAAACAGCAG
GTAGTAGACA GACCAATACC AGTTTCGCGT TAAGG

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SEQ ID NO:193: (Length of Sequence = 397 Nucleotides)

GAAAAGACCA AGGAGATGGT GAAGACAGCA GAAGCCCAGA AGCAGCAACT GAAGGAGGAG CAGGGGAGGT CAGCAAGGAA
 CGGGAGAGTG GGGATGGAGA GGCTGAGGGA GACCAGAGNA CTGGAGGGTA CTATTTAGAA GAGGACACCC TCCTGGAAGG
 TTCAGGTGTA GCGTCCCTGG AGGTTGACTG TGCCAAAGAG GGCAATCCTC ACTCTTCTGA GATGGAAGAG GTAGCCCCAC
 AGCCACCTCA GCCAGAGGAG ATGGAGCCTG AGGGGCAGCC CAGTCCAGAC GGCTGTCTAT GCCCCTKTTT TCITGGCCTG
 GGTGGCGTG GGGCATGCGT CTAGCTTTCA CTCTGGTTCA GGTCCAACAG GGTCCGTTCT GTGCTTTTGG TGCCCC

SEQ ID NO:194: (Length of Sequence = 225 Nucleotides)

GATTATTGGC TTGCTTTTCA TAACATGTAT TTTAAGTAT TTACTCTCTT AATGGCCCTC GTGTCTATTT TATACATCAT
 ATCTCTTAAT TCCTAGATG GAACACTGAA GGACAGGAAT TAAGTAAGTG ACTGGCCATG CAAGGGTTGG AAATTTTACT
 GTATCCCTTC CTCRGTAGAA GTATGTAA ACATTCAAGC AACCACATAT CTAACAGAGG AGTTT

SEQ ID NO:195: (Length of Sequence = 294 Nucleotides)

ATTACTAGAT ATTGTATGT TAAATTATGT GGGTTTTCAA ATTTGTGGAG AATAAGTAAT AGTGACATTA GTTTAAGGAC
 AGTGTTTCAT CAGGGCATT TTTAATGAA TCTTATATTT AAATGCTGT TTCAGGAATT CATGTGAATC TTTCTTTTAA
 TAGAGGACCC ACAGGCATGA NTTATTTACT CCTCCGGTGA TAGGTTCTCA CCCTGATGAA AGCGGAAGCA AATTCCAGGT
 TAGAACATTA TNCATGTTAT GTAGGGGGT ATAAAGTGTG TAAGTTTAAAT ATTT

SEQ ID NO:196: (Length of Sequence = 233 Nucleotides)

TTATTTTCT CTAAATTTTA AAATAGAAGA CTTAATGGA AAACATTTAG TACCATCATG TCAMCCTGAA TGCCAGCAAT
 ACCTCGACTT TTACACACGC AGGAAGCCTA GTAAAAGCCC CGTCAGTAGT ACACATTTCT CTATGGTCTT TCAACAGTTT
 TTCATATACA AAATTTTCTG CTATTTTTC TTTTGCAAAC AGCAATAACT TTTGGGTTTC CCATATGACC ACC

SEQ ID NO:197: (Length of Sequence = 230 Nucleotides)

AAGATATCTA CCTGGAGTAG CTGTGCAGCC CCGCCCTCTG CTTCCCCCAG CCTCAGGCC AGTGCCAGGA CAGCTGGCTG
 CTGACAGGAT GTGGCACTGC TTGAGGAGGG GCACCTGCCA CCGCCAGAGG ACAAGGAAGT GGGGGCCGCT GGCCAGGGTA
 GGGAAAGGKTG GGGCAATGGG GAGAGGCAAA TGCAGTTTAT TGTAAATATAT GGAATTAGAT TCATCTATGG

SEQ ID NO:198: (Length of Sequence = 118 Nucleotides)

TTCTCCTGGG GAAAGGGCTG TTGCTGAAGT GGCCGGTTTT TTTAAGCATC GACATTTGCA TCCAAAGGTT CAAGCAGCCG
 CCTCAGGTTT CARAGGCTTC CACCTGATGG CTGCATTT

SEQ ID NO:199: (Length of Sequence = 268 Nucleotides)

TAAATGATGG AGTTAAATGA TGTGTCTAGT GCCTATTTAA AAACTACTC TTCCCTTCT CTATGAGTTC TACTTTGGTA
 AATATTATA TTTAACCAGT TAGTAAACT AACACCACTA TTTCAATTCT CTTTGTGCA TAGTAAGTAA ATTTTGCTTT
 ACTTACTTTA TAAAAAATA CTTTACATTT TATAAGCAG GTTTTAGAAA AACGGTTTAC AAGAAAGTTT GCCTCCATTT
 CACTGCCAAT TTAAGCACAG GGGAAAAT

SEQ ID NO:200: (Length of Sequence = 422 Nucleotides)

CCAGTGAGTT TGTGAAAAGC AACAGGGGTA NGACAGGTTT AAGGAAGGAC ACAGACAGTG CCTGTTTTAA GGTCCAAAT
 TTCTTCTTTT TAATGGGTGG TGGGAGCTGA GCAATGATGT CATTTGGAAG GGGCAATGAC TTGTCAATNA TGCAGAACAT
 GTAGGCATCA TGGAGAAGGA TGTGCATCGG TCTCTTGGGA TGAAACTGA TGTGTGTGAT AGGAGTATCC CTTTGAGGCC

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AAAGGTGGTG AAAGCCCTGC TTCTGGACAG TCCGGCTCCA ATCTGTATAC TGTTTGCTG GGATGCTGTA CTCAAATACC
TGCTGGTCCG AATGAGCGAT GACAAGGTTG TTGGTATTG GGGGCAATAG CCATAGCAGT CACTTGGGAA ATGTGAAGCA
GGCACCGTGC AGTGAAGTTT TA

SEQ ID NO:201: (Length of Sequence = 273 Nucleotides)

ACTCCACGCT GATGAACCG ACGTCCATTT CTCCAAGAAA TTCCTGAACG TCCTCATGAG TGGCCGCTCC CGCTCCTCCA
GTGCTGAGTC CTTCGGGCTG TTCTCCTGCA TCATCAACGG GGAGGAGCAG GAGCAGACCC ACCGGGCCAT ATTCAGGTTT
GTGCCTCGAC ACGAAGACGA ACTTTGAGCT GGAAGTGGAT GACCCTCTGC TAGTGGAGTC CAGGCCCCCA GACTACTTGT
TACGAGGGCT ACAACATGTG CACTGGGTGC CCG

SEQ ID NO:202: (Length of Sequence = 436 Nucleotides)

GGACTCCAAC CCCCAGGAG GCCGAATGCT GAGCTTGGCA ATGGTGGCTT GGATGGAGCT GATGGGCACA TCCCCACCGA
GGACCAGGTC CTGGGAGTCC TGAGGAAGGT GGTTCCTCTG GCTGATGCTT GCACTGGCCA AGGGTTTGCA TGGAGGAGGC
ACACCATGGC GCTGCAGGAC CTGCTCCACG TGCTCACCA CTGCCTCATA GCAGAACCTG AGGTGCAGCT TCTCCTGCAG
CATGTGCTTT CTCTGCTGCC GCATGCGCCG CACCAGCTGA GGCAGCTCAG GGATTCTCKT CCCAGCCTCC ACCTCCTGCA
CAGCTGCATA GAGCAGTGCA AAGGCTCCCG TCGGCCCCAC ACCAGAGCTG CAGTGCACAA TGATGGGCGT TTGCAGGGGC
CGTGATGCAA GGTAATTGTC GTGCACCTCC TGGGTT

SEQ ID NO:203: (Length of Sequence = 336 Nucleotides)

CTGCATGINT TGGGGACACT TACCCAAGG CGCGCGTTC TCATTAGGAG CTGGGACCAG AAGTGAATAA GCCAGGTTCC
TGTCTCAGGG AGCTCCATAG CAGGACTCAG AACCACACAC GGCCCTCTAG GCATTTKTGA AGCTCTGTGC TTCAITTTTT
TTGCTTTGCC TCTAGTTTTG CCTTGCAGT ACCAATGCAG CCAGCCCATG TKTCCCTCT ATGTGGAATG TTAACGATAT
TCCCACITGT TCTGGTGTCC TTTCTGTAAT CAGAGCTGCC GTGACCATTG CAGTTCAGGC ATCTGTGTGG CCTGGCTTTC
TCTGGGGCAT AGAGCT

SEQ ID NO:204: (Length of Sequence = 393 Nucleotides)

GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAATAA TAACCCCCCA ACCCCCATCG TCACTCTGCT
GCAACACGAC ACAAGGTTT AAAGATCTGG GCCCAAAGAC TCTGGGTCCC TTCAAGCAAG CTCAGGTGGA AGGAGGTTTC
CCCACCCCC ACCAGGCCTG TTGCCCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG AAGCTGATAG
GAAGAACTNC GATATCAATG GCCTAAGCCT GCTGTINIGCC CAAGGGAGCC AAGGGCAAGA GCCAAAGGGC CAATTAAAG
GACGTGGACC TGGGGGGCCA GAGGAGGCAC CACAGCCGAG GGGAGCCACG CCTTGGGCCG GCAGGGCACA TGG

SEQ ID NO:205: (Length of Sequence = 390 Nucleotides)

GAGGAAGAGG ATGACCTGAG TGAGCTGCCA CCGCTGGAGG ACATGGGACA ACCCCCGGCG GAGGAGGCTG AGCAGCCTGG
GGCCCTGGCC CGAGAGTTCC TTGCTGCCAT GGAGCCCGAG CCGCCCCAG CCCC GGCCCC AGAAGAGTGG CTGGACATTC
TGGGGAACGG GCTGTGAGG AAGAAGACG TGGTCCAGG GCCGCCAGT TOGAGCCGCC CGGTCAAGGG CCAGGTGGTC
ACCGTACATC TNCAGACGTC GCTGGAGAAT GGCACACGGG TGCAGGAGGA GCCGGAGCTG GTGTTCACCTC TGGGTGACTG
TNACGTCATC CAGGCCCTGG TTCTCAGTGT CCCACTCATG GACGTNGGGG AGACGGCCAT GGTCACTTCT

SEQ ID NO:206: (Length of Sequence = 172 Nucleotides)

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CTTTACTGTG GGTGTGGGTG TCACTGTAC TGCCACAGCC ACTINGAGGG ACACACAGCT TTAACCCCTR TTTGCTTAGG
 NGAAGGGTGG GGGCATTGAG GGTATAAAA CTAATATAT ACACAGAAGG TCCTAGGKAG AAAGCCACCC TGAGCACACA
 TGTCTAGGCA CA

SEQ ID NO:207: (Length of Sequence = 215 Nucleotides)

AAGGCAATTG GAAGATTTAT TGAATATTGG TTAAAAGTAG ATTGACAATG ACATTAAAGA ATAAAGTGTA ATTTATTTGG
 TGCTACTTTG TGAATGCTTC CAAGTACAAA TCATCTCACA ATACCATATA CAACATACIT TCAATCACAA CTCAAATATA
 AAATAACCTA CAAAATCACA TTGCTATAAT CAATATACAA TAATTGTATT TTTAA

SEQ ID NO:208: (Length of Sequence = 444 Nucleotides)

GGAGTTCTCT TGTCCACGGA GAGCAGTGTG GCAGTGTATG GAATGCTAAA TCTTACCCCA AAGGGCAAGC AGGCTCCAGG
 TGGCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATTGGG TTGGCCCCG CTGGAGGAGC TGACAACCTG ATCAATGAGG
 AGTCTGACGT TGATGTCCAG CTCAACAACA GACACATGAT GATCCGAGGA GAAAACATGT CCAAATCCT AAAAGCACGA
 TCCATGGTCA CCAGGTGCTT TAGAGATCAC TCTTTTGATA GGGGGTACTA TGAAGTTACT CCTCCAACAT TAGTGCAAAC
 ACAAGTAGAA GGTGGGTGCC ACACTCTTCA AGCTTTGACT ATTTTGGGGG AAGAGGCATT TTGACTCAAT CCTCTCAGTT
 GTACTTGAGA CCTTCTCCC AGCCTGGGAG ATGTTTTTTG TATT

SEQ ID NO:209: (Length of Sequence = 338 Nucleotides)

GCAGATCACT TGAGGTCAGG AGTTCGAGAT CAGCCTATAT ATGCAAGTAC ACACACAGGC ACTCGCACGC ATGCATGCTC
 ATGCAACACA CATGTACACT CTACATGTAC AGCTCACATA TGATCCATA CACATGTGCA TGCTCACCCA TACACCAGCC
 ACACACAAGT ACTCATACGC ATACATGGCC ACACACAAAG TACACACAG TACACCATAT GCATATGTAT GCACCTCATAC
 ACTCATACAT ATGTGCCCCC TCAGAGAAGT ACACAAGTGC ATGCGCATCA CACATGCATA CGTGCTCATG CACACACAG
 GGACATTTCA TACACAG

SEQ ID NO:210: (Length of Sequence = 371 Nucleotides)

GAGGAAGTAG AGCCTNAGGA GGCTGAAGAA GGCATCTCTG AGCAACCCCTG CCCAGCTTGA CACAGAGGTG GTGGAAGACT
 CCTTGAGGCA AGCGTAAAG TCAGCATGCT GCAAGGGGAC TGTAGATTGA ATGATGCGTT TTCAAGGTA CACACCAAAA
 CAATATGTCA ACTTCCCTTT GGCCTGCAGT TTGTACCAAA TCCTTAATTT TTCCTGAATG AGCAAGCTTC TCTTAAAGA
 TGCTCTCTAG TCATTTTGGG TCTCATGGCA GTAAGCCTCA TGTTATACTA AGGGGGAGTC TTCCAGGTGT GACAATCAGG
 TTATTGGAAA AACAAAACGT GGTTTTGGGA TCTGTTTGGG AGACTGGGA T

SEQ ID NO:211: (Length of Sequence = 295 Nucleotides)

CCTCCCAACG TGTGACATT ACAGGCGTGA GCACACGCAC CCAGCCCATC TAGCATAATG TTTTGCATAG TTGTCAGCAG
 ATAAATATTG AATGACAAAA CTCAGATGGA GGAAAAAGAA CAAAATAACC TAGTTCTCAG AAAGATTTAA TGAGCAAATG
 GGAAATGTC AAAAAGATTT ACAGACAGGG GCATCTTAGA GTCACGGAA TCACACAGGC CTTCCTCAG CTGAGGGGC
 TGCTGGAGG TGGGGGTGGG GGTACACCTC CTCAGTGGG AGAGACTTGC CAAAT

SEQ ID NO:212: (Length of Sequence = 370 Nucleotides)

TGGCCGATAT GAGGGGGGTG GGAAGTGGCC CCGCGCTGCC CCGCGCGCT CCCTATGTCA TTCTCGAGGA GGGGGGGATC
 CGCGCATACT TCACGCTCGG TGCTGAGTGT CCGGCTGGG ATTCTACCAT CGAGTCGGG TATGGGGAGG CGCCCCCGCC
 ACGGAGAGCC TGAAGCACT CCCACTCCT GAGGCCTCGG GGGGGAGCCT GGAAATOGAT TTTAGGTTG TACAGTCGAG

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CAGTTTTGGT GGAAGAGGGG GGCCCTAGAA ACCCTGTAGC GCAATGGGGT TGGGOGCCCC AAAGGTTAAG TTTGAACCOG
AAGAGCAAAG GAAGAGGCGA TCATCATAAG TGGAGGATTA GGATTAGGAT

SEQ ID NO:213: (Length of Sequence = 302 Nucleotides)

ATCTGTGGAA TAATCTGCGG GCTAACACGG ATAACCTAGT ATAAGAACCA CCCAGTTGAT GTCTATTGTG GCTTTTAAAT
AGGAGGAGGA ATTGCACTGT ACTTGGGCTT GTATGCTGTG GGGAAATTTCC TGCCCACTGA TGAGAGTATG TTTCAGCACA
GAGACGCCCT CAGGTCTCTT GACAGACCTC AATCAAGATC CCAACCGACT TTTTATCTGC TAAAAATGGG TAGCAGCAGT
GTATGGGAAT TTTCTCATAC AGAAGGGCAT CCTCAAACC GGAAACCACA GAGATGCTAG GT

SEQ ID NO:214: (Length of Sequence = 354 Nucleotides)

ATGGATGAGT GGGCACCCCG CACAGGGCTG CAGGGTGGAA AACGCTCGAC GGCCAGGTGG TGAATTGGGG GCAGAGAGCG
CAGTGTNGTA GGGGAGGAGA GGTGGTGTCC CTGCTGCTCG GGAGCCAGCC TGCCCTGTCCT GTGGGCAGAG CAAGGCACCTT
TCTGCTGCG GTGCTTCCAG GGCTAAGCA GCGCTGCAC ACTCACCAGC GCAAGGCTCC TCTGCAGGGA ACGAGGGCTG
CTACCCATTT CACAGATGAG GGCAAGCAAG GACTTGCCCA GGGTGTCCCA NAGCAAGTGC GTAACAGGCC CTGAGAAGAG
NGCCAGTGAG CTCATCTGA GTTAATTATG GGCT

SEQ ID NO:215: (Length of Sequence = 260 Nucleotides)

TGGTTCAAAG TCTAGGCCCT CTNAGAGCT GGCTGATTCA GCTTGCCAAC AGTGACATCA GGGTGAGGCT TCCTCTGTCC
ACAGCATTAG CTGCGAATAT CCTCATGGTC ACAAGATGGC TGCCAGTGGC CGTCAGGGTG TGTGCTTCCT TGTTCACATC
CAGTGAAGA GTGACAGCCT GCTCCCTTA GCTCTCTGAC ACCANTGTGA AGGTGCCANG AACTTACTAG CAGGCTTTTC
CTCATGACCC ATTCAACAGG

SEQ ID NO:216: (Length of Sequence = 232 Nucleotides)

CTTGACAAG ATCTGGGATA ATTCTCTGGA TTACCTGGCA GAGACTTTTK TTCTCTTCCC TTACTGTCTC CCAAATAAAC
AGTCTCTCAC TCTGTGTGA GCCACCTGAA GCTGTGATAT TTCCAACGAC TGTAGGAGGA AAAAAATTAAG GGGAGAGAGG
AAAACAAAAC CAACCAACCC CTAANATCAT TTTTTTATG TACATAACGA CCTCATCTC CTGTATATGC GG

SEQ ID NO:218: (Length of Sequence = 219 Nucleotides)

CTGCAACCAT CCATACCTTT TNCCTGTGGC TGCTATGGAG TCCCCAAAC TCCCAAGTGG GGCTTATGAG GGTGGGGCAC
TTATTANGIN GTCTGGGAAG CTCATGCTGC TCCAGAAGAT GCTGCGAAGC TGAAAGGAGC AAGGACACCG AGTGCTCAAT
NITCTCGCAG ATGACCAANA TGTTAGCCTT GCTTGAGGSC TTTCTTAGNC TATGAGGCT

SEQ ID NO:219: (Length of Sequence = 390 Nucleotides)

GATAGGTAGC AGAGACCAAG GGCAGGGTG CTTGAGATGA GCAAGAGAAC CCAGTCGAAC CAGATACCCC AGGTGGGCGG
GAGGGACCCC AGACCTTCAG AGGGCTGCCC TGGTGTCTC CACAGTGCAG TCCCTCTGTA TTCCAGAGT GGGATCGGGG
CTTTCAGCCC ACCCTGATGC CTGCCCTCCA GGATGGCTGG TTTAGTCTGG GTCCATGTCC CAGACCCCTC TATTCTGCTC
CAGGACAGCA GGAATTCAGG TCTTCTCTGG GGGTGGATAT AGGAGAAAAT TTCTGCCTGG CACACACCTG GGCTCCAACC
ACTTGCCAAG TGATTCACTC TTAGGCCAG GGGGAACACA ATGACTATCA TTAATGATGC AGACCTGGCT

SEQ ID NO:220: (Length of Sequence = 382 Nucleotides)

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TTTTGTGTTT GTTTTAATAT TTTTGATATT CTCTTTGCAT TGAAATGGTA TAAATGAATC CATTTAAGAA GTGGTTAAGG
 ATTTGTTTAT CTGGTGTGAT AATAATTTTT AAGTTGACAT ATTGCCCAAG GCTTTTTTTG TGTGTTTTTA TTGTTGTTTG
 TACATTTGAA AAATATTCCT TGAATAACCT TGCAGTACTA TATTTCAATT TCTTTATATA TTTAAGTGCA TTTTAACTCA
 TAATTGTACA CTATAATATA AGCCTAAGTT TTTATTCATA AGTTTTATTG ANGTTCTGAT CGGTCCCTT CAGAAATCTT
 TTTATATTAT CCTTCAAGTT ACTTCTTAT TTATATTGTA TGTGCATTTT ATCCATTAAT GT

SEQ ID NO:221: (Length of Sequence = 314 Nucleotides)

GACTTTGGTT TATTTAAAAA ACAAGCCAAA AAAAAA AAAAACCCCA ACTTTATATA CAAAGTCAAA CTGAAACCAC
 GGWTTATGGA AAGAGGCAAG AWTATGGGT AACAGGGGAG AAGGCTGGGC CAGAGCCAAT ACCCATTTCT GAACACAGGA
 GCCACGGGAA AGAGGTGCTG GTTCTCTCTG GCAAGACCGG GGTGACTGGA ACGCAGTGGT CCTACTGGCA AACCAGCCC
 AACACTGAGC TCTTTCTAGC ATGGACTCCA TTCCCGTGAT TGGCCAAGGG AGACCCTTCC CCCAGGAGGC CTGT

SEQ ID NO:222: (Length of Sequence = 342 Nucleotides)

TTCCTTCTCT GCGGCGGCAC GTCGCNAGCA GCCTGCTTCG CCCCGTCGTC AACTTTGAGC TGGAGGAGAA GCAACTTTGG
 CAGTGGCCGC GGGGTGGGAA TCCCGTCTT CTCTGGCAGC AGTAGGCTCG CAAGTCGCTG GGGTTAGGTG GGGCAAGAGT
 TTCGCCGGCG CATCAGCGCT TGCTTCGGAC TGTTTGCAAC GTGTTTCCAG CGAGCTGGGA GCGGGGGTTG TGAAGTGGAG
 TCGTCTGGGG GAGGGGGACT TGTTTTCTT TTCTCTAGA GACCTCGGCT TTCAACTGGA TCAAACGTG TCGAAAGGAT
 GTAAATAGGC AAGAGCAAC TG

SEQ ID NO:223: (Length of Sequence = 376 Nucleotides)

GTGATGGCTG CCTTGAGGGG GACCATCATG TCGGAGACGC ATTGGTGAG GTCTACCCC ACAGCCCATG CCCAGCCTCC
 TGCAGACTCA GGTATCCAG CTGGTCGATG GCTCTTGCA TACCTGGTGC CTCTCTCT CTGGCTTGGC AGGCTTCTCT
 GGGGCTTCT CAGATGACTC TTTTGCCCTC TTCTCTGCT TGGCTAACTC CTGGCCAGC TCTGAACGTG CCTCTTGGC
 TCCCTCTCT ACCACCTCT CCCGTTTGGC CAACTTGCTC ACGCCGCTCT TGGTAGTGGC TTTGAGGCTC TCCTTGCTAT
 CAGCCCGCTG TTGATTTTG CTGGGCTTGA GGTGGTAAG GCACAGCCCC AAGAAG

SEQ ID NO:224: (Length of Sequence = 445 Nucleotides)

GTGATAGAC ATTGGCATTG GGGTTGCTTC CACCTTTTGG CTGTCATGAA TAATATTGCT ATGAACACTA ATGTACAATT
 CTTGCCTGA ACGTAAATGT TTTCATTTCT CTGGGTATT TATCTAGAAA TGAAATTGCT GTATGTTAAC CCTTTGTTA
 ACCCTTTGAG GAACTGGCAG ACTTTTCCAA AGCAGCTGCA CCATTTTAAA TTCTAACCAG CAGTGTTTGA GGGTTCCAAT
 TTCTCTATAT CCTTGGTAAC ACTTGTTATC TGCCCTTTTG GTTAGAGACA TCCTAGTGAG TGTGAAGTGG CATCTCACTG
 TGGTTTGTAT GTGCATTTCC CTGATAGCTA ATTGTGTGGA TCCCTTTTGC TTTTAGTGGA ATGAAATATC TGGTAGTCTC
 GTATGCCAAA CTAAAGCTAA AATTAAATG ACTCTGCATG ATGGA

SEQ ID NO:225: (Length of Sequence = 403 Nucleotides)

TGCTCTCGGG ACAGTTTCCC GGGCAGCTCC TGGCCAGCTT CCAGCCCAGA GTCTCAAGT CCAGGGCACC TTGGGCCCAG
 CGCAGGCAGA ATCCGAGGTG GTCTGGCTC TACCTGGGC CTCCTACTCC CCAGCACCCC TGGAGGAGGC AGGGGCTCCC
 CGCCGCGAG GCTGCTGCC CTAGGCCAC CTCTGCATGC TGCTCATGGG GCCACCTGC CTCTGGGCC CTCCTCTGC
 CTAGGGGAGC TGGGCCAGGC ACTAGCCTTT GCCAGGGAG GTGGGCTCA GGCTGCCAG GTGCTGCAC CCCAGCCGGG
 CTTCTCTGGG GCCTCCCGT CGTCAAGCCT ATATCTGTC TGTCCCACC CCAGCTGTC CTGCCCAGG GACTGGCATA
 AAA

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SEQ ID NO:226: (Length of Sequence = 440 Nucleotides)

GTGCCTTAAG GAGAGAGATT GTGTTCTTCC TCTCTCAGGG GTGATAACTC AGGAAGCCTC TGGGTTGGGA AGACCATCAG
TTCTTTTGTC TTAGGTTTCT TTCTCTGTCC CTCTTCCATC CCCAAGATGT GACCCCATAA AAATTTTTTCC TGAGTTGGCC
AGGCATGGTG GCTCACGCCT GTAATCCCAA CACTTTGGGA GGCTGAGGCG GGCGGATCAC GAGGTCAGGA GTTCGAGACC
AGCCTGACCA ACATGGTGAA AACCCCATCT CTACTAAGGA TACAAAAATT AGCCGGGTGT GTTGGCACAC ACCAGTAAGT
CCCAGCTGCT CAGGAGGCTG AGGCAGGAGA TTGCTTGAA CCTGGGAGGC AGAGGTTGCA AGTTAGGCCG GGATTGCGCC
GTTTGTAATC CAGCCTGGGC AAGCAGAGCA AGACCATCTA

SEQ ID NO:227: (Length of Sequence = 426 Nucleotides)

GACCAAGAAG TTCCGGTTCG AGGAGCCCGT GGTTCGTGCT GACCTGGAGC ACCAGACAGN CCACGGGCAG TGGACTCAGC
AGCACCTGGA TGCCGCTGAC CTGCGCATGT YTGCCATGGC CCCACACCG CCCAGGGTG AGGTTGACGC CGACTGCATG
GACGTCAATG TCCGCGGGCC TGATGGCTTC ACCCGCTCA TGATGCCTC CTGCAGGGG GGCGGCTGG AGACGGGCAA
CAGCGAGGAA GAGGAGGAAG CGCCGGCCGT CATCTCGAC TTCATCTACC AGGCGCCAC TTGCCACAAC CAGACAGACC
GCACGGCGA GACCGCTTTG CACCTGGCCG CCGTTACTTA CGCTCTGATG CCGCAAGGC TCTTGAGGCC AGCGAAGATG
CCAACATCAG GCAACATGGG CGAAC

SEQ ID NO:228: (Length of Sequence = 278 Nucleotides)

CAGGACCAGG AGAAGATCCT GGAAGATGCA GTGGATGAGT GGACGGGCTT TAACAACAAG GTTAAAAAGG CCACTGAGAT
TGTTTATAGAA AACCAACAGC AAAACACTGA CAAGGTACAT AAATACAGAT TGGACATTTT AGGGTAAATT CACTGTATTT
CCTACTTGCT TGTAGGAAAC CGAGTAAAGT GGAAAAGCTG TCCTGATCAT ATGGCATGCA CACCAGACTG CAAAAGGNCG
TCCACACTAT TTAACAGGAC TGTGGCAAAA TAGCTTTA

SEQ ID NO:229: (Length of Sequence = 425 Nucleotides)

TTTTTGTTCC CAAGCCTTTG TGAATGACTT TAAATCTCT CACCTGCAGA ACAGAGATGG CTTCAAAGTG GGGAGTGAGG
GAGTGAGCGA GGACCCTGGG CTGAGACCTG TTTTCTTCC ATTCTGCTG TGGCTTCCCA CAGCTCCCTG GTTCCACACC
AGGCCCTGCT CTGCGCAGA AAATGGATTC CCAGGCCACA GAGCTGTGAG GCCTTTGACT TTGCAGAGAC CAAGCACCCC
AGAGGCTGTG CGACASGGCT AGTCCCTGGT GGGCGGTCT GGGGCATGGG GGGCAGGGAG ACTKGGAGAT GGGGAGGGCG
TTGAGAATCC GGGGGTCTCT GGATACITGA CAAATGGCT CAGGTCTTAG CTYTGTYTC CCCACTGATT GTGTTGCTTG
GCAAGGTGCA AGTYTTCGGC TGTT

SEQ ID NO:230: (Length of Sequence = 382 Nucleotides)

TTGGAGGATG TGCTGCCCCT CTTGCAGCAG GCOGACGAGC TGACAGGGG TGATGAGCAA GGCAAGCGG AGGGCTTCCA
GCTGCTGCTC AACAAACAGC TGGTGTATGG AAGCCGGCAG GACTTTCTCT GGCGCTGGC CCGAGCCTAC AGTGACATGT
GTGAGCTCAC TGAGGAGGTG AGCCAGAAGA AGTCATATGC CCTAGATGGA AAAGAAGAAG CAGAGGCTGC TCTGGAGAAG
GGGGATGAGA GTCTGACTG TCACCTGTGG TATGCGGTGC TTTGTGGTCA GCTGGCTGAG CATGAGAGCA TCCAGAGGCG
CATCCAGAGT KGCTTTAGCT TCAAAGGAGC ATKTTGACAA AGCCATTCTC CTTCAGCCAG GA

SEQ ID NO:231: (Length of Sequence = 398 Nucleotides)

GAGGCTGGAG AATCGYTTGA ACCCAGGAGG CGGAGGTTGC AGTGAGCCGA GATGGCGCCA TTGCACTCCA GCCTGGGCCA
GAGCAAGGTT CCTTCTCAA AAACCTGGAA ATCTGTGGG AAGTAGGGGG AGGGCAAGGT TAAACCTAT GCAGGTGTGT
CAATTAGACT TGTCCAACT TGAGAACCTG AATTTTGCAT GTAATTGAAA TGTTCAGAA CAAGTCTGGC AGTTTCATAA

GGGAGTTTTT AGATGCCAAT ACATTGCAGA TAACCATATT GGTACATTA GGGGAATGAG CATGGGATAG GTGCCTCCCA
GTTGGTAGGA TAGCATGAGG AGGTTTCAAA AGTAACCSCT TTAAGGGTTA TGTCCAGTAT TTGCTAAGTA ACCAAGGT

SEQ ID NO:232: (Length of Sequence = 272 Nucleotides)

GGGGCTGCAG ACTGAGTTAT TTTATTTTCG TATTTCCAGT TTGAAGCTAC TATCATGGGC GTTTAGAGTT ATACAAATGA
CACTTACAAA AAATAAAGA CCAAGACACC CAGAGTGAGA TGCATGTTGG GGACGGGGGA GGCTGGCAGC AGGGGGGCCC
CGGCGGYTCA CCCCAGGGCT CCGGAGGGG CGACGCCTGG CTTCATCCAC CCGGGAGGCC CAGGGAGCAC CAATCACAGC
AGGGGCTCTG GCCCAGGTGT CGGCAGCCCA GG

SEQ ID NO:233: (Length of Sequence = 364 Nucleotides)

ATTTTACAGT TTTATTTTAA AATCATTTAC ACATATTCAT ACAAAGAAAA ATAAATTTCG GGATGGAATC CTGGGGACCA
TGGTAGTTTA AAAAAAAAAA TCTCTCTGAT CATTAGCTAC TAAAGACANG GCAAGAGGCT TAGCAGTCAT TTCTGGGGGT
TAGTGTATCT CCCCATGCAG GGGACAACCTG NGAAGAATCC AAGCTGCTCC CTCATCTTCC TTCGATCTAG ATGGGGGAAG
GGGATTTTCC AATGCTCTCC CCTAGAAACA TTTCAAGAAG TACAGCAAAG GCTTATGGTA AACTGGAAC CTATTGCTA
GAAATCTGGC AAGATTGCAC TTTCTGAACC CAATTTCTCT ATAA

SEQ ID NO:234: (Length of Sequence = 217 Nucleotides)

GGCCAGGAGC CAGAGGGCCC CGGGGCCACC CCTGCGGGG AACGTGATGA CCAGAGTCCA GACAGTGTCC CAGAGAGGCC
GCGGCCCGCA GACCGGAGGC TCTGTCTGCC CTNCGTGGAC GCCTCGCCAC TCCCAGGGAG GACGGCCTGC CCGTGGCTGC
AGGAGGCCAC GCGGCTCATC CAGGAGGAAT TTGCCCTTGA TGGCTACCTG GACAATG

SEQ ID NO:235: (Length of Sequence = 221 Nucleotides)

AACTTTAAAG TTAGGATTTT AAAATATTTG TAACTGGCTA AATTTTAAAG TCGTGACAAA TAATTACTTA GTTTCAGAAA
TATACACACA CTIACCTTIT AGCCAGTTTC TTTCAAGGTT TTACTGTCCC ATCAGATATC TAGCCATTTK CCTTTGCAAA
TTACATACCT TCTTAAGAGT GTATTTTAA GATTATTACT TATGCTTTAT GATGATATAG T

SEQ ID NO:236: (Length of Sequence = 221 Nucleotides)

ATAAATGGGT TTCTCACTCC TTAGGGACAC GATTGGAAC AATACATCCC ATGAACACAG GTGAATGTCC CTGGTTATCC
CTGAGCTGGG CAGTTTCACA CAATCANITT TNCTCTGAGG CCAAAGTCTG TGGTTTGATC ATCTTAGCAG CTTCCAGAAC
AGAAAGTAGG TTTACTTTGT CTCCAANTC TNATTCTCGG TGCTCAAAGA AGAATGACCT G

SEQ ID NO:237: (Length of Sequence = 251 Nucleotides)

GACATCTTTC TAAGATTCTC TGTTGGAAAA TGACTGTCAA TANAATGCGG GTTCTGGGC CATTGCTCTT ACTTTTCAITT
TTTGATTACA AATTTCTCTT GACGCACACA ATTATGCTG CTAATCTCTT TCTTCCTAGA GAGAGAACT GTGCTCCTTC
AGTGTGCTG CCATAAAGGG GTTTTGGGAA TCGATTGTAA AAGTCCCAGG TTCTAAATTA ACTAAATGTG TACAGAAATG
AACGTGTAAG T

SEQ ID NO:238: (Length of Sequence = 327 Nucleotides)

GTTCGTGGCT GTCACAATAA TGCTGTGATA ATGCTGTGGT TTCCAGCAG GGAGGTGGGA GCGGGGAGGG GGCTGCAGCC
TGATGAGAGC CAGCTGAAGG AAGAGCTGCC TCTCCCTTCC TAAGCCCCCT CCCAAGGTCT GCCCCACCG CCAACCAAA
GACCACTCCG AACAAAGTGA GGATGTGGAT GCTCTTGCTG GGTCCGCTGT TCCGAGAGG GAAAGAAAGG GTAGCTGCAC

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TGACCCCACT GTCCCATAT ACAAGGGTTK GGGGGCAAGA GCATGTGGCT ACTCCAGCA AGGGRAAAAT GGGAGGAGCA
GTAGAAA

SEQ ID NO:239: (Length of Sequence = 285 Nucleotides)

ATTATTAGTT TATGGTGCTT TAAACCTATC AAAATAGTTG TAAGTAAATG GATTTCTTGT NCTCCCAATA ACAATTCTCT
GAGCTAGGAT AGATGTCTTT CTGGCCATTT TACAGGTGAT GACACTGACA TAGGGACTGA GTGGGTAGCT TAAGTNCAT
GGTTACCAGG AGCAGGACCN ACGTTTCCTG NCTCCAGTC TCATCTGT TTCCACTGAC CAGGTTGGTT GCTCCCTTGG
AAAGCAGTCC CTGAGAGTTG ACTTAGAAGT TCAGGGNGAA GAGGT

SEQ ID NO:240: (Length of Sequence = 349 Nucleotides)

TTTGTCCATG TTGGACAGGC TGATCTCAAA CTCCTGGCT CAAATRATCT GCCCAGCTTG GMCTCCCAAA GYGCTGGGAT
TACAGATRTG AGCCACTGCA CCCAGCCTGA CATGCCATAG TTTCAGCAIT TTCTTGGGCA ATGATCCAAG CTGAAGGCTG
GTCTGAGGGA TCTSAAGAAG CGTATGAGTT GGAAGAGAGG GACAGAAAGG AAGAAGACAT GTGAAGAGAG AAAAGGAAGG
AAGCTAGCAG AGGAATGCC TCCAATAGAG ACTGCTGCCT GAAGCTCAGC CCTCTGAAG ATAGGTAGGC CAGGCTGGCT
TAGCTGAGGC AGTGGGTTAG ACCAGCCCT

SEQ ID NO:241: (Length of Sequence = 233 Nucleotides)

GTGACCGGT CTGCCTTCAT CTTTTAATGG CCGGTGCGT ACAGTTAGTG GACAGACGGG GGATGGGACA CAGCAGGGGT
GAAACAGGGC AGTCACAGCC GGGGCCGGGG ATCTGGAAGC GGGGGCGGTC CTCCCCCTGG AAACACCGTN TCTGGAAGGA
CACCCCTTAGG ATCCCTGAC CTCARGGTGC CACCCACAG GGCCTGGTGT TCTGGGAGGC CCGGCTKGAG TGA

SEQ ID NO:242: (Length of Sequence = 372 Nucleotides)

ATATGIAC TA CATTGGTGG AATACGCATG TACAATTCTT CAAAAATAGT AAAGAGCAAA ACAACAAAA AATAGTAGAA
GCACTGGAGA AATACACTAT GGCATAAACT AGTTACGGGT GGGATGTAC ATGGACCATA TCTACACTCT GTGGCAACCT
TCTTACCTGA CTCCAAAGGA TCAGATAATC AAACAGGAAA TTATGGTATG AAATCAGAAA ATTGAAGTAT GCATTCATAT
CCTAAGCAIT TTATTTTATG TCAAAATATA AAAATATTCA TCAGTTAGCC AAGCTTTTGN GATGAGAGAT CATAGCCTCC
TCITTGATAG GGGGTTTCTT GGGTTTCCTT GATTTCTATG TTCAGAGTTT TT

SEQ ID NO:243: (Length of Sequence = 256 Nucleotides)

CTCACACATT CATACCCAAG GAAGAGGCAA ACACACTCAA GTCCAGAGTT CCCAGTGGTG CCGCCAGAC CTACTGTCCC
GGGGGTGTTA TGGCTGTCCC TCGGCTTCCC CAGAGCAGCC AGGACAGCCT GCACCGNCTN CCAGACTCTC GCAGGAAGGG
GAGCTCTGCC CTGGGGAGGA AACTNACAGG CTGGGAGACA AGACTCCCAT CGCAGGGACA TGACAGCAG CAGCCACAGC
CCCGGGACG GGGCAT

SEQ ID NO:244: (Length of Sequence = 220 Nucleotides)

CAAATGGCAG TTCTCGAGAA TCGACGAGGA ACTTAAATCT GGACTCAGGG TTTCAGTGG GTCTCCGACT CCCACCACCC
CGCCCTCCG NCTGTCTCGC CGCCAGNGT GACCTCCAG CGAAGGAATC TTCTCCGAT GGGTGACCT TGCCAANAGG
TGTGGCACCT GGNGACTAG GAGGCGCCTC CANACTAAG GCGCTCANTG CGGCGTTCTT

SEQ ID NO:245: (Length of Sequence = 239 Nucleotides)

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TTCATGCTCA TGTAACCTTC TTAATAGTGC CTTGTCIGCT GGGTTTGTAG CTGTAAGAGT TCTGCAAAC TGGCCCTATAA
 AAATATTGAT GCTGTCCATT AAAATGAATC TCTCTCTCTC ACTCAGTCTC TCTCTCTGTC TGTCTCTCTT TCTTCTCTCT
 CCTGCCATGT GTGTGTCTCT CTCTACTCCT CTGATTTTGN CCTCTCTCTC TATTCTGCTA CTCTCTCTCC TCTCCTCCG

SEQ ID NO:246: (Length of Sequence = 269 Nucleotides)

GGTTTCACCA GCGTTTAATG TGCTCTGATG TTGACCGTCC CTCINAGTNT TCTGGGGAGG AGGGGGTGGG GCGGAGGGTC
 AGGAAAGCAG GCTCAGCTTC CAGGGTCAGG GAGTTGTGGG CCCAGAGGGG CTGTACAGT GGATGCACCC TGCCCCCTCC
 CTCGCCAGAC CCGAGGGTAG GGCAGAGGCA CCTCCTCGNC AGCCTNTGGG CTGCACCCAC AGGGAATNGA GGGGAGGGGC
 ACCATTACCA CTGGACCCAC CAAAGACCC

SEQ ID NO:247: (Length of Sequence = 297 Nucleotides)

CTATTCAAAG TTTACTGACC TCCCCAGCCA GGCAGGCCAA CCCTTCOGAG CAGGGGAAAT GTCCATCTAG CTGCCCTCTG
 CTGGGTTGCA GCCTATGCCA TGAGAGGGTA CTGGAAGCAG GAGGGAGCCC TGGCTAGGGC AGGCCTTAAA CGCAAGGGAA
 GCTGAGCAGA GATCTGCACA CTCAACCCCA TTTGATATTC TTCTCTCCT CAGTCATGGC CAGCGTGTG GTGACTAGAC
 CGGTGCCAAT AGTCCGGTTG CCATCTCGCA GGGTGAAAAG ATGGCCTTTC TCTTAAG

SEQ ID NO:248: (Length of Sequence = 281 Nucleotides)

ACAACAAGCA CACCAACTAT ACCATGGAGC ACATCCGCGT GGGCTGGGAG CAGCTGCTCA CCACCATTC CCGCACCATC
 AACGAGGTGG AGAACCAGAT CCTCACCCGC GACGCCAAGG GCATCAGCCA GGAGCAGATG CAGGAGTTCC GGGCGTCCCT
 CAACCACTTC GACAAGGATC ATGGCGGGGC GCTGGGGCCC GAGGAGTTCA AGGCCTGCCT CATCAGCCTG GGCTACGACG
 TGGAGANCGA CCGGCAGGT GAGGNCGAAG TTCAACCGCA T

SEQ ID NO:249: (Length of Sequence = 383 Nucleotides)

AGCGCATCCA CACCGGGGAG CGGCCCTACC CTTGCTCTTA CTGTGGCAGG AGCTTCCGCT ACAACAGAC ACTCAAGGNC
 CACCTCCGTT CAGGCCACAA TGGAGGCTGT GGGGGTGATA GTGACCCATC AGGTCAGCCA CCAACCCAC CAGGTCCCTT
 CATAACTGGG CTGAAACTT CTGGCCTGGG TGTCAACACT GAAGTCTAG AGACCAACCA GTGGTATTGG GGAAGGGAGT
 CGAGGGGGAG TTTTGTAAAT CCAATCTCT GTGGNTTCAT GCTTTGTATA TGCTCAGAGC AGGGCACAAT AATCCAAGAG
 AAGTCTGTG AGCCCNATC CAACCCAC AGTAATTATA ATCTTGGCAC ATCAATGGAA TTT

SEQ ID NO:250: (Length of Sequence = 397 Nucleotides)

GIATCCTACG TTACAACAAT AATATCATGG GAGAAATAGA AATAGCCTAG TTTGCTTCCA ATAGAACTG CTTTTAACAT
 GGGCTGTATA TAAAATATT AAAGAGAAAC AAAACTGTAC ATTTCTCTCAT TGCTCCGCTA CAGACAACCC ATGTCATAAC
 CTTGTGCAA ATATTTTTCT CCTATAGCAG TAAGTACAGC ATTAGAAGGT GATTAGAGAG TCTGTTGATG AAACACAAAT
 GIATGTTTTT ATTGATTTTT ACTTTAGAAC ACTACAGAGT TCCTGGGACC GGGGTGAANG GCATTTAGCT GGGGTGGTTT
 GTGTGGGGGT TAAATACCTT CCCACTTGCA AGTGACTTGC CTGTNCCCGC TGCGGAATC CTGTNCTTG GTTGGGA

SEQ ID NO:251: (Length of Sequence = 276 Nucleotides)

GGCCATAAAA GAAAGAGCCT GTTACCTATC CATAAACCCC CAAAGGATG AGACGCTAGA GACAGAGAAA GCTCAGTACT
 ACCTGCTGA TGGCAGCACC ATTGAGATTG GTCCINCCOG ATTCGGGNC CCTGAGTTGC TCTTCAGGNC NGATTTGATT
 GGAGAGNGA GTNAAGGCAT CCACGAGGTC CTGGTGTTCG CCATTCAGAA GTCANGACAT GGACCTGCGG CGCACGCTTT
 TCTCTAACAT TGTCTCTCA GGGAGGGNTC TACCT

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SEQ ID NO:252: (Length of Sequence = 314 Nucleotides)

CCTGAACAGT CTGTTTCATT TGA CTGTTG GGGGTCTCCC AGTTTAAAGCA AGATATTTAA GCCTTATTTT TCTTGGCATG
CTTGGATTCC CCAGTAAAAA AAACCTCTGC OCTGGGCTGA CAATCAAAGT TCTGGGAAGT AATATGGATA AGCAAGCTGG
AAATGGAGAA GGCTATTTCAC TGTGCCTGGG TCCTACTGTT TTCTGGNTGG GAACTGCTTT TCCATTAGGC CTGGTGTGCC
CTGGAAGGGA NGAGCCTCTT GCAGAGACTA CAATCTTGA TGGGTCTTT GCCAAGTTT AAGGTAGGAA CCA

SEQ ID NO:253: (Length of Sequence = 293 Nucleotides)

GAACACTCTG CTCAGCCAA GGTGGTGAGG GCAGCTGTT CTAACAGCG CAAAGGCAGC AAGCCACAGT CCCACAAGCC
TCAGCCTACC CGTAAACTGC CACCAAGAA GGACATGAAG GAACAGGAGA AAGGAGAAGG GAGTGATAGT AAGGAGAGTC
CAAAAACCA ATCAGATGAA TCAGGGGAGG AAAAGAATGG AGATGAGGAT TGCCAGGAG GCGGGCAGTA GAAGAAAGGA
AACAAACACA AGTGGGTTC ATTACAAATA GACATGAAG CTGAAGTGCC CAG

SEQ ID NO:254: (Length of Sequence = 413 Nucleotides)

CTTTTCTTA ATATATTAAT ATTTACCAAG GCAAGACAGT GATTTATGGA CATTTAAAT AGTTTAGCTT TGTCTGCTG
TTCTAAAACA TTGTGACTG TCTGATAGAC TTTTAAAAA CAGTGCTTTT CCAGGATGAT TTATGATATG CAGTATTGTT
TATAGATGCC CATGGCTTAA CCTTGAAAAG TCAATTAAGT GACACAATTA AGAGAGATAT GAATAGTGGT AGAAAAAGCA
TGTA CTCTGG ATAAGTGGGG GTAAATCTAG TATTTGTTAT TCTGTCACT AATATTGTCA NTAGTATTTT TTAGAAGGTT
TAATTTTTT ATGGGTTATA AATTCATGTC ACTCTCTGC AATGGGTACC ATCAGTGGGA ATGCGGAAT TATCCATGCT
TTGGGGGTTA AAA

SEQ ID NO:255: (Length of Sequence = 376 Nucleotides)

GGGTCCAGGG GAGAATCAAT ATATCTAGTA TAGTTTATAT TTGTACCTTC TCTCCTTAAG AGTTACAGTG AGTGACTCTA
CTCCTCAAT GGAGCACCTC TCTCCAGGAG AGTAAGAAGA TCACATAAAT AGAAAGTGAG CTTTGGACTC TAACAGACAT
AGGTCATAT TCAACTCTGC TACTTAATAT CCATATTGGT TTGAGTTATT TAACCTTGAC AATCCACACT GTAAAATGGG
TAAATAATA ATACCTCTCT CTCAGAAGTG TTACAAAGTT TATATGAAAT AATGTGCTTA AAAAGCTGGG TACATAGTAG
GAGCTTAGTC ATTGTTTATT TTCTCCTCA TACCATACA TGNITCATTC CTA CTCTG

SEQ ID NO:256: (Length of Sequence = 241 Nucleotides)

GTAGAGATGG GCTCACTATK TTGCCCAGGC TGGTCTGAA CTCCTGAGGT AGGAGGATCG CTTGAGCCTG GGAGACAGAG
GTGTCAGTGA GCGGAGATCA CGCCACTGCA CTCCTGCCTG GGTGACACAG TGAGACTCTG TCTTAAACAA AACAAAACAA
AAAAAGGCCA GGCGCAGGGG CTCACACCTG GTAATCCAG CACTTTGGGA GGCCAAGGTG GGTGGATCAC CTGAGGTCAG
G

SEQ ID NO:257: (Length of Sequence = 406 Nucleotides)

CAAGGGTGTCT CTTGCCAGA TCACTGTAA TGATTTCCT GTGGGACGCT CCGTGGATGA GGCTCTGCGG CTGGTCCGAT
TAAGAAAACC AAGAGAGGCC GGGCAGGTG ACTCAAGCCT GTAATCCAG CACTTTGGGA GGCCGAGGTG GCGGATCATG
AGGTGAGGAG ATTGAGACCA TCTGGCTAA CACAGTGAAA CCCGCTCTCT ACTAAAATA CAAAAAATT AGCTGGGCAT
GGTGGCACGC GATTGTAGTC CCAGCTACTA GAGAGGCTAA GGCAGGTGAA TCGCTTGAAT CCAGGAGGTG GGGGTTTCAA
TGAGNCCGAG ATCGTACCAC TGCACTCCAG CCTGGGGCAA CAGAGTANGA CTTGTAACC CCCAACCAAC CCNCCAACCC
CCCGCC

SEQ ID NO:258: (Length of Sequence = 157 Nucleotides)

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GAAAAGAAGG AAGGAAAGAG GGGAGGGAGG GAGGAAAGGA GAGAGGGAGG GAAAGAAGGA GAAAATGCTG GAGCAAAGGA
GGTIGGTTAC ATGATTTCTC TAATGGCAAT GAGCTGCTTT CTGGATGAAA TACAGAATCA GAGCGAGACT CCGTCTC

SEQ ID NO:259: (Length of Sequence = 361 Nucleotides)

AAGCAGATAT AAATGGGACC ACTGTGAATC AAAGGGGAAA AATTCCAGGA AAAAAAATT CCAATAGCTT CACAGTTTAA
CTGAGGTTTT GGAAAACTT AAGTGAATTC AGCTGATGTT TGAAATATCT GTCTACATTT AATTAGATGT GTTGTATTTA
CCAAGGAGGC ACAAATATGT AGTTCTGTAG ATTTTAATAC TAACTTTTCC AGTAAGAAA ATAATACCAG GTGATTTCAA
AAAGGGCAGT GATCTATAAA CACTCAAAT GCATCTTGA ACAGGGGAGC AGAAATAGCT AATTTAATGA AAACAAACCT
TAAGCACTTT ACTTGGCTTC TAATAAGGCA TCCCAAGAAA A

SEQ ID NO:260: (Length of Sequence = 349 Nucleotides)

CAATACATGT ATACAGTGTA CACTGATCAA ATAAGAGTAA TTAGCATATT TATCACCTCA TTTCTTTTGT GGTGAGAACA
TTTAAATCC TTCTTTTTG CTATTTTGAA ATATACAGTA CATTGCTATT AAGTATAGTC ATCTGGCTGT GCAATAAAAC
ACCAGNACTT ACCCTCCTG TCTGTGACTT TGTACCTGT TCACCACCC TCCAATCCTC TAGTAACTAC CATTCTACTC
TCTACTTCTA TGAGCCTGAC TTTTAAAT TCCACATGTA AGTGAGATTA CATGGTATTA TTCTCTNGT GGCTGGCTTA
TTTCACTTTA ACATAATGTC CTCTAAAT

SEQ ID NO:261: (Length of Sequence = 415 Nucleotides)

GGAAGATGAG GATCTAGGIG TGAGCGTGCA GAGCCCTGAG GCTGGGCAGG CAGGGAGCTC TGCTGCACA ATGATGTAGC
CATGTGTGGC CACACCAGCA CTGGGCAGCA CCTCTGGGGA GGGGGCAGG GCAAGGACAA CTGGAGAGAC AAAGCCAGAT
GGGGCCACGT CCTTAGAGT GGTGTGTGCAC GCACATGTT GTGTGTGTGT GTGTAATACG CAGGGCAGAA ACACACCATG
TAGGTCAGGC AGGACAGAAA CACATCATGT AGGCCAGGCG TGGTGGCTCA GGCTGTAAAT GCCAGCACTT AGGNAGGCCA
AAGTGGGCGG ATCACCTGAG GTCAGGAGTT CGAGACCAGC CTGGCCAACA TTGCAAACC TCATCTCTAC TAAATTTCTA
AAATTAGCCA GCGT

SEQ ID NO:262: (Length of Sequence = 382 Nucleotides)

GGCATGGGGT CTGGCTTTAA TGIGTAACTG ACGTGGGTCA CTGAACTGT TCAGGCTGAT CTGAACTCC TAGGCTCAAG
TGATCCTGCT GCCTTGGCCT CCCAAAGTGC TGGAATTACA GGAATGAGTC ACAGCACCA GCCGGCTGTG TTTTGTTTTT
TGTTTTTAC CCCGACAGGT NCTCAGTCAG TCGTTAGCTG GAGTGAAGTG GCGTAACACA GCTCACTGCA GCCTTGATCT
CCTGGGCTCA AGTGATCCTT CCATTTCTTC CTTCCAGAGT AACTGGTACT GCAGGCCAC GGCACCACAC ATGGCTAATT
TTTAAATTC GTAGAGACGA GGTCTTGCCA TGTTTGCTCA GGCTCCAGCT GTTGTATTCT TT

SEQ ID NO:263: (Length of Sequence = 447 Nucleotides)

TGTATCAACT CAGAATTTCC AGAGAGCTCT TCCTGGCTGA AAAGATGTCC AAGGATCATC TCCGAATGG AAGAGGTGAG
GCCTGTTAGC TTGTGGGCTG CCCAATCCAT CCAACCTTG GCATTGGGAT CAATGTTGAT GAGGACAAGA CCTTCAACAG
TGTCGGGGTG GTTAAGAGCA TATCTCGCCA GGATGTAGGC TCCAGCTCCA ACACCAACTC CAATTATTGT AGAGAAATTT
AGGTACTGCA GGACGCAAGG GATCATGTCT GCAAGCTGGT CCAGAGATGG GTACTGATAT CCCAAGGGA ACACAGGGGC
TCCCTCTTCC ATTCCAGGGG CATCCACATG GACCCGCACA AAGTTCTGAA TGATTCTCTG CATGTCTCTG AACTKGAACA
GTGGCTGGAG GAAAGATTTA TAGTTGAGTC CACATCGGGT AGGTAAG

SEQ ID NO:264: (Length of Sequence = 317 Nucleotides)

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TTTTCGCTGT CAACAGACAG TTTATTCTAT ATACAAACAC AATTTTGTAC ACTGCAATTA AATAGAATGG AATGAGCGCT
 CCTCCGCAAT CCTCCCGAG TGACTGGTIT GGCCGCGGC CACTCCATCC CCGAGTGGGA CTGGACCACG GCCCTGGNTG
 CTGCCACTGA TGTTGGNGCC TGCACCCAC GTCCCTATGC CCGAGGCGCA ANTCTGCTCT CCCGGGGACC CCAAGNCTGG
 NGCACACGCG GGGAGGGCGG GGCCATGGAG AAGGCACTGC AGGGAGCACC AGGCAGAGCC GTGTTGAGGC CGGCCGG

SEQ ID NO:265: (Length of Sequence = 270 Nucleotides)

GCAGAGCAGG TGGAAGTGAT CAGGAACCAT AGTIGACAGT TCCAATCAGT AGCTTAAGAA AAAACCGTGT TTGTCTCTTC
 TGGAATGGIT AGAAGTGAGG GAGTTTGGCC CGTCTGTITT GTAGAGTCTC ATAGTTGGAC TTTCTAGCAT ATATGTGTCC
 ATTTCTTAT GCTGTAAAAG CAAGTCCTGC AACCAAATC CCATCAGCCC AATCCCTGAT CCCTGATCCC TTCCACCTGC
 TCTGCTGATG ACCCCCCCAG CTCACTTCT

SEQ ID NO:266: (Length of Sequence = 297 Nucleotides)

ATGAGGCGAG GCCTGCGAAG TGGCTGGCAT GCAGCAGGTG CTAATGAGTG TTGCAAAGGT GATGTCAAGC AGGCAGCTTC
 CCGTGGCCAG AGAAACATTG CAGAGAAGGG ATAAGTAGGG CTTAGTGACT TTGACGGGTC AATGGAAGAA TGACCCAAAG
 AAGGCTTCAA GGCCAGGCCT GCAGTTCTCC ACCACAAAGG CCCTCACTGA TAGCACCAC TCCCCACAC TCAGCTTNG
 GGCCTAGGTC TGGGTACCC AGCTAGAAGC CACAGGACCC TGAGGCGTCC GAGGGGT

SEQ ID NO:267: (Length of Sequence = 387 Nucleotides)

CTTGTTTTCA TCATGAGCTC GATCAGATGT CTCTCGATCT TCAGACTGGT GGTGTCCTAT AATGTCTGT GCACGCATTC
 TTGAGCTTTC CAGGATTTCT GTCTGTTCTC TCTGTTTATC TACAGAAGAA ACTTTCTCCT TGAGTTCCTG TTCTTGTAG
 CGCCTTGAAC TCTCTTCTCT TTCTGGTTTA CGATCCTCCT CTTTCCATCT ACCCTGTCTG TCTTCTGTGA GGTGCGAGGG
 ACTAAGAGAA CGAGATTCTT GAGGTGCTAC AACTTGCTC AAGAGTCTGT GTTTTTTCAT TTTTATCAT CTCCACTGTT
 GTAGGCATCA CTGTCCGAG AATGTTCAAG CCGGCGCTTT CGGGGACTG TCTAGGGCTG GGACTCC

SEQ ID NO:268: (Length of Sequence = 318 Nucleotides)

CCTGAAGGTT ACCTCTTTGG AGAGAACATG GATCTGAAT TCTTGGGCG CCGCCCGTTC CAGTTTCCCT ACGTCACTCC
 TGCCCCCAC GAGCCCGTGA AGACGCTGCG GAGCTGGTGA ACATCGCAA AGACTCCCTG CCGCTGGTGA GGTACAAAGA
 CGATGCCGAC AGCCCCACCG AGGACGGCGA CAAGCCCGG GTGCTCTACA GCCTGGAGTT CACCTTCGAC GCGATGCC
 GCGTGGCCAT CACCATCTAC TTCCAGGCAT CGGAGGAGTT CCTGAACGGC AGGGCAGTAT ACAGCCCCAA GAGCCCC

SEQ ID NO:269: (Length of Sequence = 422 Nucleotides)

ACATGTCIAT TCAGGTCTTT TGCCCATTTT GAAATAGCAT TGCTGTCTCT TTTGCTGGAT ATTAACCCCT TGTGAGGTGC
 ACAGTTTGA AGTTACCTTT TCTCATCTA TAGGTTATCT CTTCACTCTT GATTGTCTCT GTTGTCTGTC AGTAGCTTTT
 AAGTTTGGTG TAATACCAAT GTGTTTCTC TGCTGCCCTT TTAAGTTTCA CTGGGTCAA AGTTTAAAT TTGTGAATTC
 CTATATTTTT AGGGCAATTC TCCTGCCACT GTTGAATTA TGCTCAATC TATGCAGTAG AATATTAGTG TGAAATGCTT
 CTGTACCAAT GGAGATGATG CTGGATGGTC TCTATCATAA ACCCATACCT CATCAACACA AACTGCAATT ACACAAGGGC
 TCTATATCAT GGATCTCCAT TT

SEQ ID NO:270: (Length of Sequence = 376 Nucleotides)

GAAGAAGAGC CCAGACCTAG GGGAGTATGA TCCACTTACC CAGGCTGACA GTGATGAGAG CGAAGACGAT CTGGTGCTTA
 ACCTGCAGAA GAATGGAGGG GTCAAAAATG GGAAGAGTCC TTTGGGAGAA GCGCCAGAAC CCGACTCAGA TGCTGAGGTT
 GCAGAGGCTG CAAAGCACAT CTTTCAGAAG TCACCACGGA GGGCTACCCC TCAGAACCCC TTNGGGGCTT GGAACAGAAG

GCGGCCTCCT CCTGGTGTG ATATGTGGGC AGTCTGTCT TCCTGCTTGA CTTTGGGGAT CTCGATGATC CTGGTGCTCC
TGTTGTCTTT CCTGATCCCC TGTCTCCCA GAGATCTTGA CAGAACTGGA GCCGCA

SEQ ID NO:271: (Length of Sequence = 346 Nucleotides)

TGTTACGTT CCTTTCTTT GTCTTTCTTT TTCTATCTT TATCTATACT TCGACTCCTC TCCTTTTCC TCTCTGTTC
TTTACCTCA CCTTTATGCT TATGACTGTN CCCACTAAGA TTCCACGTT GATCATCAAT TTTACGNTA TCTGACTCC
TACTGCGACT GGCACGATTG GTTCGTCTAT CCTTGAGCG ACTTCTACGA ATGCTTATGA AAAAGAATCA AGTTGGNCAC
CAAATGTTT ATAGCAGTAG GAAATTTCTT TTAGAGACTT CTGATGGAA ATTTGAAGTG TATGTGCTA TCAGATCAAG
TGCAGGAGAG GTATAAGGCT ACTGGA

SEQ ID NO:272: (Length of Sequence = 394 Nucleotides)

GTGTGTGTG TTGAGTCGGA GTCTCGCACT GTTGCCITGG CTGGAGTGCA ATGGTGCAAT CTGGGCTCAC TGTAACCTCC
GCCTCCAGG TTCAAGCCAT TCTCTGTCT CAGCCTCTA GTAGCTGGGA TTACAGGCAC CTGCCAGCAC ACCTGGCTAA
TTTTTTATAT TTNAGTACA GACAGGGTTT CACTATGTTG GCCAGGCTGG NCTTGAACCTC CTGACCTTGT GATCTGCCA
CCTCAGCCIN CCAAAGTTTT TCAGAAATTT TTAAGGAAAC ACTTTTAAAC CTTAAGGCTT TCTTTCAAAC TCAGATCCCC
TTACAAATT GATCAGACGT GGCAAAGTTT TGCTTCAAAG TTTTGGACT GGGTTTCCAC TTTAGGCTTA CTGA

SEQ ID NO:273: (Length of Sequence = 259 Nucleotides)

CAACCTGTAC CCAGGCTGCG AGAACGTRAG TTTRAGGAGC CGCAGCATGA TGTCGAGCC GGTCTTACC AAAGGRATGC
TGGAGGTGTT TKTGGCCCCG ACCCACCACC CGCACTGCTC GGCGATGAC CAGTCCACCA AGGSCATCGA CATCCAGAAC
GCTTATTTA ATGGAGTTGG CGATTCAGC GTGTGGGAGT TCTCTGGAAA TCCTGTGTAT TCTGCTGTW ATRACTATTT
TGCTGCAAT AATCCACG

SEQ ID NO:274: (Length of Sequence = 348 Nucleotides)

TCCAGTTGT CCCGATTGTA ACTCAAAGG TGGAATATCA AGGTGTTTT TTTCAATCCA TGTCGCCAGT TAATCTTGCT
TCTTTGTTT GGCTGGGATA GAGGGGTCAA GTTATTAATT TCTTACACC TACCCTCCTT TTTTCCCTA TCACTGAAGC
TTTTTAGTGC ATTAGTGGG AGGAGGTGG GGAGACATAA CCACTGCTTC CATTTAATGG GGTGCACCTG TCCAATAGGC
GTAGTATCCG GACAGAGCAC GTTTCAGAA GGGGACTCT TCTTCCAGGT AGCTGAAAGG GGAAGACCT GACGTACTCT
GGGTAGGTT AGGACTTGCC CTCGTGTT

SEQ ID NO:275: (Length of Sequence = 396 Nucleotides)

GTGTGGTGAA TTGGTCTGT GATAAAATG GAGTTCAAGA AACAAACAGG AAACACAG TGCCCTTCG CCCCAGGTC
ACCGAGTGG CAGGGCAGTG ACCGCTGCTC TCAGGCTGCC CAGTGTGGAC CTGCTGTCTG GAATGCTCCT CCTCCAGTC
CCCTCGCTCC TGTTGCCAG CCACATGCAC CTTCCCTCTA CCTCTGGGAT CCTGCACCA GGTCTGCCCC TGTCTCTCA
GGGCTGCTCC TMTTGNCCA CAGGACCTCA GCTGGAATGT TGCTCTCTCC AAGAGGCCCTT CCTGACTATT CAGCTCACAG
TGGCCACCA GCCACAATCT GCCATGTGCT TTGGGGGATT GTCTGTAAAC TGGCAACATA CTGGCAGCCC ATAAC

SEQ ID NO:276: (Length of Sequence = 381 Nucleotides)

GGTGTGGGG AGGCTGCGCA AGGGGGCGAG CCGGGGAGC CGGCGCAACC CCGNCCCAG CGCACCCAC CGCCGCCCA
GCAGCAGCAC AAGGAAGAGA TGGCGGCCGA GGCTGGGGAA GCGTGGCGT CCCCCATGGA CGACGGGTTT NTGAGCCTGG
ACTCGCCCTC CTATGTCTG TACAGGGACA GAGCAGAATG GGCTGATATA GATCCGGTGC CGCAGAATGA TGGCCCCAAT

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CCCGTGGTCC AGATCATTTA TAGTGACAAA TTTTAGAGAT GTTTATGATT ACTTCCGAGC TGGTCCTGCA GCGTTGATGA
AAGAAGTGAA CGAGCTTTTA AGTTAACCCG GGATTGCTAT TNAGTTAAAT GCAAGCCAAT T

SEQ ID NO:277: (Length of Sequence = 206 Nucleotides)

TTAATAAGAC AGGGCTGGCG CCCGAGTAAT TCAAGCCCTT CGGAAGTGTC ACCGGCTGCC AGGCCTCGGA TGCAATCCTG
GAGGCGGGAG ATTGCGCCIN AAGACTGGCT CGAGCCGCC AGGGGCTCCA TGGGAGACTA ACGCGGAAGT YCCAGCCGTC
CCAGTGCCGT GACGTCCCCC CTGGTGGGG CCTGCACCCG ACTACT

SEQ ID NO:278: (Length of Sequence = 260 Nucleotides)

ACCTGTAATC CCNGCACTTT GGGAGGCTGA GGTGGGCAGA TCACGAGGTC AGGAGATAGA GACCATCCTG GCTAACACGG
TGAAACCCCA TCTCTACTAG AAAAATACAA AAAATTAGCC GGGCATGGTG GCGGGCGCCT GTAGTCCAG CTACTCGGA
GGCTGAGGCA GGAGAATGGC GGAACCCCG GAGGCGGANT TGCACTGAGC TGAGATGCGC CCGTCTCTCC AGCCTGGGCA
ATAGAGTGGG ACTCCATCTC

SEQ ID NO:279: (Length of Sequence = 308 Nucleotides)

GTGTCTGGGC TCAGGGTTGG CCAGCTTGCA GAGGAGCAAG CTAGTAGAAA TATTGCAGGG TTCCCAAAAC CAGGTCAAGC
AAGATGCCAT GTCACCCCTG AGCATGCCCTG TCTTCCGAGG GGTGTACCTC TTGGCTGGCA AAGCCAAGGC CAGTGGGNAC
TTGTATAAAT CACATGGGTA TGTTCTTGGT TCAGTGATCT TGGAGTGATG ATGGTAACTN ATGAACAGAG AACTTTYYAG
AACTTKGGTC CTGTCTTCTT CCTGAACCT AGACAAGTTT CACCCCTCTT CCTGTACCCA ACCCCATT

SEQ ID NO:280: (Length of Sequence = 402 Nucleotides)

ATTTTAGCAG CTTCCTTGAA ATTTAAATA TATGTGTAAG TATCTCATT ATATGCATT CTAGTTTCTT TATACAACAG
AATAACTTCT TTTACATCAA ATTTCTGAAT TTGACTAAAT TTGAAATAA TGAATCTCA TCCATTAAAT ATAGTCATAG
AAGGAAGGAA ATATGAAAAT TAGGATTCA GATGTTTGAA CATAAAAGAT AATTTTAAAC ATGTGCAGTA ATCTATTTCT
TTTTTTTTTC GAGACGGAGT TTTGCTCTGT CACCCAGGCT GGAGTGCACT GGCGCGTCT TGGCTTACTG CACCCTCTGC
CTCCAGTTT AAGTGGATT TCCTGCCTCG NCTCCTGAG TAGCTGGGGT TACAGGGGCA TGCCAACATG CCGGGGCTAA
TT

SEQ ID NO:281: (Length of Sequence = 313 Nucleotides)

GAGAATCCGT CTAAAAAGA AAAAAAGAAA ATTATAGAGG GAGATGAGGT GGGACAGAGT CTGGCAGTTC ATCAGGGGGA
CTGAGAAGGT GGCATTGGA GGAGAGGAGG CAGTGAGCTG TGCAGTGTCC AGGCAGCCAC CCTTCCAGC GGCCACCATG
ACGGTGTCTT CATGTCTTTA ACCATTAGTA ATCATTCACT CATTCACTCA TTTATCCGAC GTCAGCTGGA GGNCTGTCCC
GNGGGGCATG CGCTTAGATT TNGGAGGCTT TCCGGGATGC TTGCGCTCCA ACGGGGAAG GCCGACTTGG GCT

SEQ ID NO:282: (Length of Sequence = 217 Nucleotides)

TGACCTCAGT TGATCCACCC ACCTTGGCCT CCCAAAGTGC TAGTATTATG GGCGTGAACC ACCATGNCCA GCGAAAAGC
TTTGGAGGGG CTGACTTCAA ATCCATGTAG GGAAGTAAAA TGGANGGAAA TTGGGGTGCA TTTTCTAAGG ACCTTTCTAA
CANATGGCTA TAATNTAAGG GGTTTAGGGT CCTTTTTTTT TTTTCAGGGA TACATT

SEQ ID NO:283: (Length of Sequence = 327 Nucleotides)

TAGAGAGCGC TTTACTCCTG GTCCCATGGC GTAAAGATGT GGCTGGGCCT GACAAGGCTC AGCCTCCAGT CTTAAGATGG
GCACAGAAGG GCAAGAAGTA AGATGACGAG TCCAGAATT AGGACAAGCC ATGAGCCAAG GCCTGGTCTG AGCAAGGGCA

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GCCCCCTGTC CCAGACACAG GCACCCCAAA TCTCACTTTG GACAGAGCCA ACGTGGGGG ATCTCCCGG GCGTGGGCGT
GTCAAGTCTG CCTGCAGGAC CTGCGCATTT TGCTCAAATC ACAACCATTT TTTGCTTCCA ACATTTTAGG GTGCTTGTC
AGTGAGT

SEQ ID NO:284: (Length of Sequence = 340 Nucleotides)

CTTTGGAAAT GTAAATTGTT ACAAACTTAC TTTAGAGCAA ATTTAGTCAT CCTTCAAAAA TTAAATGTA TACTTATTTT
CTAAGAATTC GTTTGGCTCA CACAATTGTG AAAAGATAGA TGTACACCAG TGTTCATTAC AACAAATTATG CAACAAATCT
ATTATGTGCC AGACATTATT CGGAACCTG GGAATACATA AGTGAACAAA GCAGATTCTT GATCTCAGGA CCTGGGGTCA
GGGGTCAGGA GAAGCCAAAA AACACGCTNG AGAAATACTT TATGCAGTGT GGGGGGAGTG CTACCAGCAG AGCAGGGGAT
GGNGATGTGA AATCTTGTT

SEQ ID NO:285: (Length of Sequence = 335 Nucleotides)

GACATTCACG GAGGTGGGTT CGACCTCCG TTCCCCCACC ATGACAATGA GCTGGCACAG TCGGAGGCGT ACTTTGAAAA
CGACTGCTGG GTTCAGGTACT TCTGCACAC AGGCCACCTG ACCATTGCAG GCTGCAAAAT GTCAAAGTCA CTAAAAAAT
TCATCACCAT TAAAGATGCC TTGAAAAAGC ACTCAGCAG GCAGTTGCGG CTGGCCTTCC TCATGCATC GTGGAAGGAC
ACCCTGGACT ACTCCAGCAA CACCATGGAG TCAGCGCTT AATATGAGAA GTTCTTGAAT GAGTTTTTCT TAAATGTGA
AAGATATCT TCGG

SEQ ID NO:286: (Length of Sequence = 399 Nucleotides)

GCACAATTAT TAAAAAGAGG CCACTTAAAT TCAACTCTCC ATGGATACAG TGTCGTGGC AATGTTTAAAT TAGAGATTAA
AATTGAGGAA TTGAATAATT GAGGTGCTA ATGAATTGTA AAACCTAGCA AAGCAAGGAG AGCTGAGCGT TTTCCGACT
TAGCTTTTCT TTCTCTAACC CTTTCTCAT TTCTTACTAT TATCACAAT CTGGCCTTGA CTGCTGAGTT TATTACTACC
CATAACCCTG GCCTAAGTGG AAACAAAAA GCTGTAGCCT CTTTGCTGAG CTCTGGAGA CATTTGGTCT ATTGGATTTA
TGACATGTT AGAAGCTTGC AGTTGCAGGA GGCTGACAAT GATGAAAATG AGATATGNTG GGCCACCACG CTTTCTGT

SEQ ID NO:287: (Length of Sequence = 294 Nucleotides)

TTCCAGTTGA ATTCACCACT GGACAAAATG AGGAAAACAG GTGAACAAGC TTTTCTGTA TTTACATACA AAGTCAGATC
AGTTATGGGA CAATAGTATT GAATAGATT CAGCTTATG CTGGAGTAAC TGGCATGTA GCAAACTGTG TTGGCGTGGG
GGTGAGGGG TGAGGTGGG GCTAAGCTTT TTTTAAGATT TTNCAGGTAC CCTCACTAA AGGCACCGAA GCTTAAAGTA
GGACAACCAT GGAGCCTTCC TGTGGCAGGA GAGACAACAA AGCGCTATTA TCCT

SEQ ID NO:288: (Length of Sequence = 391 Nucleotides)

TCTACAGATG AGGAAAGCAA GCTCAAGCA AGGGGGGCGT GATCCTTTCC CTGTTCCCTG TGTATTCCCT GTCGTGGCA
AAGCCCATTT CTTGATTCT CTCTCTTTA CTTTCATGTT GAGAAGTAGT TTCTTCTGC AGTTTATTTA ATTTACTGGC
AAAATGACGT ATTTTMTTT CAGCAATGTT TCAGCTAGAT ATTTGCTTTA TGCATGTAAT GTCAATGAAG TACTCATAAG
TTTTCAAGAA ATGACTGATA TAAATCATGT GTTCCACTAC ATAGTCTAAA TATTTAGTAT TTGGTCATCT ATTTTAATAT
GTTCAAATTC TGTAAACAA GNCATAGTCA CTATGTGAAG ATAAAAATAG NCAAGTTGC ATTATGACTT T

SEQ ID NO:289: (Length of Sequence = 198 Nucleotides)

CTTATATTCT ACTTTATTG GTAAACTCA GAACTAACA ATTCACATCC TCCCACCTTC TCTTTCCGA AGAAGGCAGT
TTGCAGAGAC AAAAGGCTG TGGGTGGG ATCATCCACC ATCTCCAGT TTTACACCCA GGCTACCCAT GGCTTGGCAG
TCAGGCCTCT AGGCTGATT CTCTCAGAG CAATAGAA

SEQ ID NO:290: (Length of Sequence = 353 Nucleotides)

GGTTTTCATC TTCGGTTTAC AAAAGTCCTA CTATTIATTT ATTTTAACTT TAATTTAAAT ATCACCTACC TTAGGTAGAA
GTTTTCCTTT GGTAAATATA ATATAAAACC GACATTTCTT GGGGGCATAA TAGTAAAGAT GTTAACATTT TTTGGTCTT
TTTGGATGCT GTATTTGTGC TTCTTCTGAA AGTGATGTGT GCCAAGATGG CTCATGTAAC CCAGTTTGA CTAGGCTATT
GATATTCTGT CTGGTTAATT TATTGAACIG GCTTAAAGCT ATACATATTT CCTTTTAGNTGTAA GATATTCTAG
ATATATTGGT CTACTGATTC ATAATATCAC TGG

SEQ ID NO:291: (Length of Sequence = 163 Nucleotides)

CCTGGTAGGC CTGCTACACA GTCTTGCAAC GNCCTCTGTC CTGGGCTTC TCGGTGAGG CAGGGGAGTC TGCTGTCTT
AGATGTTGGT GGTGCAGTCC CAGGACCAAG CTTAAGGAGA GGAGAGCATC TGCTCTGAGA CGGATGGAAG GAGAGAGGTT
GAG

SEQ ID NO:292: (Length of Sequence = 397 Nucleotides)

ACGGGAAGGT GAGTATGTA GTATGTNIGC CAGACAATGG TGTTCATG TCAATGGAGG TTTCTCAGAG AGAGGTGATC
TGGCTGGAGA AAGCTTAATC TGGTGCAAT GGACAGGTGA CTTTAAGAAG TGGGGAACGA GGAAGGAGG CCAGTTTGAA
AATNATAACA AGGGTCCAGA CTCAGTGATG CAGCAGTGAC CATGAGAACA GAGCAGCTGC AGGTAGAAGA TGGAGACAGA
ACTNGGGAGA TCTGGTGGAG GTAAGCCGCG TGGAAAGATG ATGTCAGGTT TATACCTAGA GGACACATGA TCCATTCA
AAGCCAGGG NAACCTAAAG AGAAAACACT TAGAATTTTIN GGAGAANAGG CTAGGCTGG GCCTTAGACA TGGGCTG

SEQ ID NO:293: (Length of Sequence = 360 Nucleotides)

GAGGTAAAT TTACATACAG TGAAATCCAA ATCTTAAGTG TACCACTAGA TAAATTTTGA TAAATGCATT ATGCCTGGTC
TTCACACACC CTTTTCAATA TATAGAAAT NTCCAGATAA TTTATTTTGT TGTTTTTTTC ACACACTAAG TTCTAGACTT
TTCCAGGTCC GAGGGAACCTA TTAGGGGGGA AAGTACTTGT NATAGTAAAA AAGATTTTAG GTGTGTTTGT TTTTAAGGTC
CAGAAACACA TCGCAGATT AAGGTCTGCA ATCTCTGCTT TTTGTTATTG TTCCAGTTT GATCTCAGTG ACATTACAAG
CAAGCAGAAA CACTCAGACA TGAAATGGCC CAG

SEQ ID NO:294: (Length of Sequence = 321 Nucleotides)

TTTTTTTCAG GNTTCAACCG TTTTATTGGG AGGTTTGTGTT TTCTGTGAAA TACACTAGAG GGTGGGGAAG GGGACACATT
CACTTTGCAA GATAAGGGTT TCCCACCACT AAAGGAAAGG CATGGGGCAG GGCACACTGG GGTTTGGGTC CGTTTTCCCA
CCTCCTCTG CTGGCTCAC TTTTCTTTT TCTCAGCAAG TACCACAGAA CACAAAGACA AGAAACAAA CAGCAAATCA
ACCTCCAACG GGGCCATGCC AAGCCTTCCC CACTCCCCCA GGCTGGGCAA GGGCTGGGAG GGGGCTGGG CAGCTCACTC
G

SEQ ID NO:295: (Length of Sequence = 165 Nucleotides)

GACACACAGC GCCTCCGGCC CGGCACAGGG GGCATGTCCA GAGGTGCTGT GTGTACCAA CTGGTCTTCT AATTTGGAAG
GAGTTGAAA GGCCTTTTGT TTGATGAAAA GTTGAAACA GTGGCACATA TCTNAGAGG AGGAACGAG CAGCGTGGT
AAGCG

SEQ ID NO:296: (Length of Sequence = 315 Nucleotides)

CGAATACAGG TAGTGCCAG CTGGTTGGGC TGGCCAGGA AATNCTGCT GTGTCAAATA CTGCTGGCCA GGATGAAGCC
ACAGCTAAG CTGTGTGGA GCCATTGAG AGCACCAGTC TAATTGGGAC TTAAACCAGG ACATCTGACA GTGAGGTTCC

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AGATGTGGAA TCTCGTGAAG ACTTAATTAA AAATCACTAC ATGGCAAGNA TAGTGGAACT TACGTCTCAG TTGCAGCTGG
CTGACAGTAA GTCAGTGCAT TTTTATGCCG AGTCCGAGC ACTGTCTAAA AGACTNGCCT TGGCTGNAAA GTCTA

SEQ ID NO:297: (Length of Sequence = 244 Nucleotides)

AGTACGGTIN NCGCTNAAGC TTGAINATCG RATGCCAAT CINCATAITTT GTGTTAGAAT CAITTTGTTTT TGTGTCTTCA
TGTTTCTATA AGATAGGACC AATATTCTTT ATTGGGCTTT GATTTTATTT TGTAACITAA ATGTATTAAG GCAATAAATG
TAATTTTCCA CTAATAACTA TCATTATAGA TTTGGTTACT ACCTACTGCT CAGCAATTTT TTTTCTTATC AAAATTCTTC
CTGG

SEQ ID NO:298: (Length of Sequence = 152 Nucleotides)

CCTGAACAGG TAATGAGAAA AATTTACACA CAAGTGATTT TGAAAACAGA ATGGGTGCT TACAAATTAC AGGAAATGTT
ATAACACAAA CCAGAAGAAT TCAATGGAAG GCAATAAGGGAAAT GAAAATTATA AAAGTATCAN GA

SEQ ID NO:299: (Length of Sequence = 374 Nucleotides)

CGATGTTTTT AATGTCATCA CACGTTGTCT CAAATGAGT GGTGGCATCA TATGTGCGGG AAATAAAGAT CTGGCTTTCT
GTTCCCAAGT CTTTTGGTAC CAGGAGGTCA CIGATGCTAA CAAATTTCG TTCAATTGGT TCCAAGAGCT CCAAAGCTGG
TCTGATTTCC TTCTCAGGCT CCTTGGTTTC CACAGTTGTA CTAACATAG CAATGTACTT CCTTGTGCT GCTACATTGT
GCGCAAAGGA GATCATGCAG ACGTAGATAT CTGACTTTG ATTGACTTTG GTTCTGTGGA ATAATGATCT GGCAGGAGTT
GGCATCAITG GTGTTCTTTG ATGGGGGTGG CTGAGGGATG CAAATAACCT CTG

SEQ ID NO:300: (Length of Sequence = 365 Nucleotides)

GGCTCACCAA GCTCAGCAAG TACGTGTACT TCTTCGAGGC CTGCCGGCTG CTGCAGAAGA TGATTGACAT CTCCCTGGAT
GGCTTCCTGC TGACTCCGGT GCAGAAGATC TGCAAGTACC CTCTGCAGCT GGCCGAGCTG CTCAAATACA CGCACCCCCA
GCACAGGGAC TTCAAGGATG TTGAAGCCGC CTTCGATGCC ATGAAGAAGC TGGCCAGCT CATCAACGAG CGGAAGGGTA
GACTTGAGAA CATCGACAAG ATTGCTCAGT GGCAGAGCTC CATAGAGGAC TGGGAGGGAG AAGGATCTCT TGGTCAGGAG
CTCAGAATC ATCTACTCGG GGGGAGCTGA CCTCGGGTTA CACAG

SEQ ID NO:301: (Length of Sequence = 224 Nucleotides)

GGTATTCAAA CAAATAGCCT GAGAATTING GGGGGATCTG AAATAGAGTA CTATGCTATG TTGGCTAAAA CTGGTGTCCA
TCACTACAGT GGCAATANTA TTGAAGTGG CACAGCATGC GGAAAATACT ACAGAGTGTG CACACTGGCT ATCATTGATC
CAGGTGACTC TGACATCATT AGAAGCATGC CAGANCAGAC TGGTGAAAAG TAAACCTTTT CACG

SEQ ID NO:302: (Length of Sequence = 363 Nucleotides)

AGTTTCACTC TTGTTGCCCA GGCTGGAGTG CAATGGCGTG ATCTCGGCTC ASTGCAATCK GCACCTTCCG GKTTCAAGCG
ATTCTCCTGC CTCAGCCTCC CAAGTAGTTG GGATTACAGG CATGCCCCAC CATGCCCGGC CAATTTTITA TTTTTCGTAC
ACACAGGGTT TCTCCATGTT GGTCAGGCTG GTCTCAAAT CCCAACCTCG GTGATCCGTC CACCTCGGCC TCTCAAAGTG
CTGGGATTAT AGGCATGAGC CACTGTGTCC GGCCAGCTCA AACAAITTTA ATGCTTCTTT CAAGNCTATT AGAAACCTTT
AATTGCTTCT TAAGTTTCTC CCCCACTAT GGAGGAAGCA TAT

SEQ ID NO:303: (Length of Sequence = 253 Nucleotides)

ATGCAGGAAS ATCTACCARG CAAATCGAAA ACAAAAAAAG GCAGGGGTG CAATCCATCT CTCTGATAAA ACAGACTTTA
AACCAACAAR RRTCAAGA CACAGAGARG GCCATARCAT AATAGTAAAG CGGATCAATT CAACAAGAAG AGCTAACTAT

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CCTAAATATA TATGCACCCA ATACAGGAGC AACTAGATTG ATAAAGCAAG TCCTGGAGGT GCCTACAGAG GAGGCTTAGG
CTCCACACA TTA

SEQ ID NO:304: (Length of Sequence = 416 Nucleotides)

TTTTTTTGGAG ATGGAGTACT CGTCTCTTG CCGGGGCTGG AGTGCAGTGG CGCGATCTCG GCTCACCTGC AACCCCTGCC
TCCCCAGTTC AAGAGGTTCT CCTGCCTCAG CCTCCCGGGT GGCTGGAATT GCAGGCACAC ACCACCATGC CCAGCTGCCT
TCTTGTAATTT TTAGTGGAGA CGTGGTTTCA CCATGTTGGC CAGGCTGGTC TTGAGCTCCT GACCTTAAGT GATCGGCCAG
CCTTGGCCTC CCAAGTGCT GGGATTACAG GCGTGAGCAC CGTGCCAGG CTGTTTTTTA ACTGACTTTG GATTTTACTC
CCITTCATG CAAATTTATT TTAGAATCTG TTCCTTAACC TTAGGGGGTT GGGTTAGACA AGTTTCAAGG GAGCCTCAAG
TGKAAATTC TTAAGG

SEQ ID NO:305: (Length of Sequence = 223 Nucleotides)

CACACCCAGC TAAATTTTGT ATTTTITAGTA GAGACGGGGT TTCACCATGT TGGCTTGGCT GGTCAOGAAC TCCTGGCCTT
GAGTGATCCC CCGCCTCAG CCTCCCAAAG TGCTGGGATT ACAGGTGTGA GTCAGCGTGC CCAGCCGAGA TTTTATTGTT
TTAATTACAA ATTTTACGTT AACTGATTCT GCACATTTAT ATTTGCACAC TTGTGCTAGT GAG

SEQ ID NO:306: (Length of Sequence = 169 Nucleotides)

GTTTTGCCAC ATTGGCCAGG CTGGTCTCGA ACTCCGACC VVGIGAGCCA CCGCCTTGG CCTCTCAAAG TGCTGGGATT
ACAGGCGTGA GCACCAAGCC CGACCCATAG CTCCTTACAA CTGCCCTGTA AAGAAAGCAT CATTGGCCAC TGTTAGTATT
TCTCTTGAA

SEQ ID NO:307: (Length of Sequence = 303 Nucleotides)

GATTTGGTAC AGAGTATGTC AGGAAGACAA CTCAGATTGC CATTTTAAAT AAAGTTGTAC ATGAACAATA ATTGGAATCA
TCAGGTAAAT TTTTAAACA AAGGTTCTTC ATTTACTGTT ATGATTGGAA AAAAAATTAG AAAATAAAGT AAGTSCCAT
GGCTAATTAA AAAATAAAC CTGGCCGGG CGCGGTGGCT TACGCCATATA ATCCAGCAC TTGGGGAGGC CGAGACGGGC
AGATCAAGNG GTCAGGAGAT TGAGACCATC CTGGCTAACA CGGTGAAACC CCATCTGTAC TTG

SEQ ID NO:308: (Length of Sequence = 143 Nucleotides)

ATCTAGGAGG CTGAGGTGGG ATCGCCCCAG TACTGGAGGT CAGGGCTGCA GTCAGCCATG ATCATGCCAC TACACTCCAK
CCTGGGTGAC AGAGTGAGAC CCTCTSTCAA AAAACCTCAG TCAATVCAA CACACAGTAT ATT

SEQ ID NO:309: (Length of Sequence = 199 Nucleotides)

CCCACCTCA TAANCCAC TGGGGAGTCT GGGGGCTCT ATTGCCATGT GCCTGGGAATN ATNATATGCT CATCACTTTA
TGAAGAATAA AATTTGINTT TCCTGCCTTA AAGTTACATT CGTCTTCCG CTCAAATCCT GATCTGGTCC ATTAAGAGT
GTTGCGAGAC AAAGTTTCTG AAAGATTAGA GAAGAATCC

SEQ ID NO:310: (Length of Sequence = 426 Nucleotides)

TCCTGTACC ACCTCTCCT GAATACGGAG GAAAAGTTCG TTATGGACTG ATCCCTGAGG AATCTTCCA GTTCTTTAT
CCTAAACTG GTGTAACAGG ACCCTATGTA CTGGAACTG GGCTTATCTT GTACGCTTTA TCCAAAGAAA TATATGTGAT
TAGCGCAGAG ACCTTCACTG CCCTATCAGT ACTAGGTGTA ATGGTCTATG GAATTAAAAA ATATGGTCCC TTGTTGCGAG
ACTTTGCTGA TAACTCAAT GAGCAAAAAC TTGCCAACT AGAAGAGGCG AAGAAGTTCT TCCATCCAAC ACATCCAGAA

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TGCAATTGGA TACGGAGAAG GTCACAACAG GCACTGGTTT CCAGGAAGCG CCATTACCG TTTTMTATGG GMCAAAGGGA
GTTACATTGG CTATGGCTTT TGGAAG

SEQ ID NO:311: (Length of Sequence = 489 Nucleotides)

TGCACTCGGT CTTGGATGIG GTGAGGAAGG AGTCAGAGAG CTGTGACTGT TTCCAGGGCT TCCAGCTGAC CCACTCTCTG
GGGGGCGGCA CGGGGTCCGG GATGGGCACC CTGCTCATCA GCAAGATCCG GGAAGAGTAC CCAGACCGCA TCATGAACAC
CTTCAGCGTC ATGCCCTCAC CCAAGGTGTC AGACACGGTR GTGGAGCCCT ACAACGCCAC CTTMTGGTTC CACCAGCTGG
TGGAAAACAC AGATGAAACC TACTGCATTG ACAACGAGGC CCTGTATGAC ATCTGCTTCC GCACCTGAA GCTGACCACC
CCCACCTACG GGGACCTCAA CCACCTGGTG TCGGCCACCA TGAGCGGGGT AACACCTGCT TGCGCTTYCC GGGCCAGCTG
AACGAGACCT GGCAAAGTGG CGGTTGACAT GGTGCCCTTC CTGGCTGAAT TTTAATGCC CGGTTTGGGC CCTACCAGCC
GGGGAAGCA

SEQ ID NO:313: (Length of Sequence = 302 Nucleotides)

CTTCTCATGC CAGTCTAATG ATTGTTTTTA GAAAAGGATA TACATTGACC TTCAATGTAA TAAGAAATGC AACACTTTAC
GGTGTCCAAC TGCTAAGATT TATTTCCAAC TTGTGAGACA CAACTATTTT GCCCAATCCA AATCAAAGGG AATCAAGGCT
GTGAAATCCA CACAGGACAT CAACGCACAC ATAAATGAAA ACTACAGATG TGTCAGAGGC AACCATATAC ACACAAATAA
TGTAACACT AAATTCCATG AAGTAGCTGT CCAGGGAATA CTTTCCAAAT AACCTTCAGC AG

SEQ ID NO:315: (Length of Sequence = 339 Nucleotides)

CGCGTTATTT AAATTGTGAA AAATAATGAA TATTAATTTG GAGCATAATA TTAAATACA TGAAAAAGC TGGCTGGGAA
ATGTTGGCAT GACTTTTCCC AGATGTTAGC ACTGCTTCAA CTMTTGAGAG NGCACTCTGA GTGTAAGTTT ACTAGACTGA
CATTACTAAA ATCATGGTG CTATAGAGGC AGGAGAATAC GGGGAATAAG AAAGCCAGTT GCAAGCCAAC AATCCTAAAA
CTCTCTCTTT TGCCATGGAC TGACGGCATA TTAAATGAGA TCATGCATTT TAAGGNATTA ACAGTGTACA CCACATGTGC
GTGTTCCAAT AAAAGGAAG

SEQ ID NO:316: (Length of Sequence = 430 Nucleotides)

TAAGTTGGTG GTGCTGTCTT GGATGCTTCC AGTGGGCCCC GACCAGGTCT GGACAATGCC TGGCGCCCGT CCCCCGCCCC
TCTCTACAC ACACGCAAGA NTTCGGAGCT CCATGGGGAA CAGAAGCAAG ATATCCGTAA AATCAAAGTC TAGGGGGTGG
GAATGAAAAG GGAAAAGTGA GGAACGGGGA GCCAAACCCA GGAAGACGCC TCTTTTCTG CACATTCCCT CTCCTTTATA
TACTCAGCTC TIGGCTGTCT CCAGTATGTA CCCACCTGG TCTTCCAAGC TGGGAGCCAC TTTTATAAC ACAATCACAG
TTTCACAAAC CCCAGGAAGG TTCCATGTGG NGAGAGGTTA AGTTTCGNCC TTGTCCGGGG AATTATGACA CTCAGAATAT
CCCCTTTGGT GTAAATGGAA GACAACCTTT

SEQ ID NO:317: (Length of Sequence = 317 Nucleotides)

GTTAATGCTT CTNATACCTA ACAAATCTTG GAGGGCAGNC AGCACCAACA CTCAGGGTGC TGGGAAAAGG TGGGTGAGAG
ATCTGAGGCA TCTCGGGGCG AGGGGAGGGC TGGGAAGGCA GGCTGGCTNG GACCTCGCA TCTTAACCTA ACCTTGACCC
TCTTTCCATG AGCAGAGTTC CGATGCCCTG GAAGCTGGG AGAGTGGGGA GAGATCCCGG AAAAGGAGAG CAGTGTCTAC
CCAAAACAG AAGAGTGAGG CTTCCAGGT GCAGCAGGG TGGGAGGTGA TCAAGCAGCG TGGGGATTGT AAGCCCC

SEQ ID NO:318: (Length of Sequence = 407 Nucleotides)

CTGCCCCCGC ACCTTCCCCG CCTATGCCCC TGGCTGAGAT AGGCCCTTCC CTCTCCGGG AGCCTCCCGG GCCACGGAC
CCTCAACTTC TCCAGCCGCT CCACCCACGC TTCTGGACC GCCTCTGCA GGGAGGCTC ACATCCAGCA CTGTCCCTTA

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CAGTGGCCAT GCCCTTGGCG ACCTCAGTGT CCCACTCTGT AAGGGGACAA TGCAAATCCC TTTCCTCAT AGGGTGCATG
TGCCAGINTT GATAAAGTGC TGGCCACAGG CCCTGCCTTC CCAGGGCTCA CAACACTGTG TCCCTGACAC ACCCGTGGGC
TGTAGTGAAT CINTTCATGG GGATTGACT ATAACCNGCA GTCAGGAATG AATTTACAN CATAGCTCAG TACATACACA
CATATCT

SEQ ID NO:319: (Length of Sequence = 382 Nucleotides)

CACTGCACAC CTGCGGTGG GGACAGGACA TGAATAAGCA CAGAGCTTTC TTCTTTTIGAG GCCACGCATG TGGTGCAGAG
OGGGACCACC TGCATCCACA CAGCCCGGCG CACCTGCTCC TACTTCTGCT TAGCGTGTGA GCAGCTTGGT GACCAGGGTC
TCCACCAGGG GGCAGGCCAG GACCGGCTTA CAGCACTTTC TAGGGGTTCCT CTGGTCCCGG GCTGGGACAC ATACAGGGCT
TAGTAAAGTT CATAGATGGT AGCTAGGCAG CCCAGGCC CAGGTGACAC CTNTCCCTG CTTGNCCTGT ACTGNCCTGCC
TGCAGCACTC CTGGGAATCT TGTACGAAGA CAAGGAGAGA CAGGACTTCA TCTTCACCAT CT

SEQ ID NO:320: (Length of Sequence = 368 Nucleotides)

CATCCGGGGC ATGGACAGCC CCCGGGGTGN CCGCCCGCNC CCCCCTGCGC GCGTCGGGTG CNGTTCACCA GGCAGCACCT
GGACAGCTCC AGAGTCGGGG AAGCGCCATG GTTCTGCGC AGAAAGGATG CCGGTGTTGGG CCGGCAGATC CTGCCAGGAC
TAGGGGCCCTT CCCTTTCCAT CAGGAGCCTG CAAGAGAAAC AAGAAAACAT TAGAGGGGCT TCTGTGTAGG GGGAGGGCAA
GTGAGTCTA TCTTCTCTT TGTAGTACT AATTAAACAC CTGCTGNTG CCTGGTACTN TGCAGGGTGG GACAGGCATC
ATAGCAACTC ACAGTGTGCC CCTCTCTTT GTGCCCATAG TCTAGTAG

SEQ ID NO:321: (Length of Sequence = 355 Nucleotides)

GGTGGACTGT GCTGTGAAC TGAGCTGAAC TGGGATCAGG AGAAGGAGAA GTGGGGATG AGCCCTCAC CTCCACACAC
TCTCTCTGT GCCTGAAATT CCTCCATTAA GCAGCATGC TGTCCCTGT AAACACCCAC ATTAAGCCAT TATTCATCTT
ATGGCTTAG TAGGCGTAG TCCCTCAGAT CCTTCTCTGC TGAAAGCGGA TCTGATAGA GAGAAGGGAA GAGAGATGGA
TGGTCTGGG GACGGCAGGC TGGTCCAAGA GTGGGGAGGA AAGATGTCTC TCGACTCTN GGGNAAGAAA TATTTTCTGG
GGGAATATGG AGGCACCANA GGCAAGCTCA AGAGG

SEQ ID NO:322: (Length of Sequence = 225 Nucleotides)

CTCTCACTTC TCACCAGGCA CCCACAAAGC CCCAGGCAG CTCCATCTTT CCAATCCANT CCCATTATCC CAATCTCTAC
CCCAGGATCC CCCAACTCC TCCACTTCA CCTCTGCCAC AGACCGCTC GCCCCCAAAC TTCAGCTTNC CCTCATCTGC
CCINACCACC CACAGCCCCT CTTACCTAGC CCTCTCCGC GACGGGCCCG CGGGCTCCCC ACATT

SEQ ID NO:323: (Length of Sequence = 250 Nucleotides)

CTCTCGCTCC TGTCCGTGAC CTTCAGATG CAGGTGACAG CTGCCCCTTC CGTTTTTNTC TTTCAGTCC CGCCTGCCGG
ATTGGGTCC AGCCCTGCCC ACACGCCCGG TACATCCCGC CTACACTCAC CGATGTGCGC TAGCAACCG GCTCGCGGCC
AGCATCCGCA ACCGAGGTCC CCGCGCTCCA GTTCTCTGNN GGGGAGGGAG AGGGGTGTG CTTCTCCAGC CCCCTGCAGC
CTGGTGTCTT

SEQ ID NO:324: (Length of Sequence = 338 Nucleotides)

GINTTCTTAT GCGGATAAAA TTTCINAGGT AAGAAAAGTT AGCTCTGAGC AGCCCTCCGC CTGATACTAA TACTTTACCA
ATGGAGATTT TCTTTTCTT TCTGTTTTT GAGACAGGGT CTCACTTTGT TTCCAGGCT GGAGTGCAGT GGTGCCATCA
TGGATCACTG CAGCCTCCAT TTCCCTGGCT CAAGCCATCC TCCCACCTCA GCTCCCGAG TAGCTGGGAC TACAAGGTGT

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GCACCACCAC GACTGGCTAA TTTTAAATTT TTNNNTAGAG ACGGGGGTTT CCCTATGTTG CCCAGGCTGG CTGAATTCC
TGGGCTTCAA GTGATCCT

SEQ ID NO:325: (Length of Sequence = 461 Nucleotides)

ACTCCAGACT CCTCCAGCTG TCATGGATCC TGGGCCAGGG GATCCCGNAC TCACCCAAAG TGGGGCTTTG GGCGGTGGTG
GGCCGGTTC A GTGGTGGAGC GTCTTTTGT CCAGCTCAGA ACCTGCTGCC GGTCCGGTCC CAGAAAAGTT TCTAGCGGGT
GTAGTTGCCA AAATTAGGGT CTGACTGTC TGGGCTGGCG GTGGGCGCCT CATCCAGCC TTGGAATCC TTGCTAGTA
GCGGAAGTT CTAAACAGCA AAGGATACAA GGCCCTTGA GCGCAAGTAA ATTTCCCTC TTGCAGCAAC AGGTGTCCTC
CAAACCAAGC AGCGTCCAG TGTGTCGGT GGCTGGAGTT CTGAGTNGG GTGTGGGAT TGGGAAGGTG CACAGGCAGC
CGCTTGAGAC CCAGAGGCAG TTNGGGGAG AGGCCTTGG CTCAGAGGCC TTTCTTTGT T

SEQ ID NO:326: (Length of Sequence = 391 Nucleotides)

GGCCCTCCAG TGTCTGCAG AGAGGCACTC TTGCCAAGTG TCATTGATGA CGCAGTGAA AACCAGAAAC ATTTCACTTT
CCAGCCACGA GACTGCAGCA ATCTGCTCTT TGGACTGCAC TTAGGGAAAC CGAGGCCAG ATAACAGACC CCTCAAAAGC
CCCCAGGACG GCAAAATCAA AGGGGCTGAG GTGCTCTGAA CAGCCCCAGC AAATTAAACC ACCTAATCTT GCGCTACTCC
CACTGCCCTG AAGCAGCTG TGGTGGGAGG TGGGGGTGGA TACAGTGTGA CAAAGAGAAA CCTGAGTTGT AGCCATAGAT
TGCTAATCAG TAACAAAATA TCCCTCTAAA CCCAGTCTG CCTTGAACCC ACAGGCTCAG GATGGTAAAT A

SEQ ID NO:327: (Length of Sequence = 438 Nucleotides)

TACTGACTGA CCTGG GATTCCAGC CGAGACGTTT CTGCTCCATT CCGGCAGGAG CTACCTTCCC GAGCCGGCT
TTGCTCACCT GTAGGAG TAGAGGGAAA TAAGACAGCC CTCTTAGGA TGGTGGAGTG GCTAGAAAGA AGCAATCCAC
GCCAAAGGCT TAGCTCAGT OCTAGACTTA GTAAATGCTC AATAAATGTC TGCCATTGTT ATTATTATTT ATNATGCTC
CAGCTGGCCT GGAAGGAGGG TTCTGGAGCC AGAAGGGACC TTGGAGAGAC CTCGGTTAAA TCTCTAGGC CATCTTTATT
TTTAGGATGG AGTAACTTGC TCAGGACCTA CATCTAACAT TGTGGAGGGG ATCGGTTTT TAAGTAGGAA TTCTINGACT
AGACCTCTCA GCAACCTTT CINTCCGTG ACAGTGGG

SEQ ID NO:328: (Length of Sequence = 400 Nucleotides)

TTGCCCTCTC GGCTAGAAAG TCTCCATTA TGGTGTGTG TCTGCTGGGA CCCACGGGGC GCTGCACAGG GAACCATGTG
GCCGTGAACC TCAAGTCNG NCCAGCAGGG GTCAATTGTC TCAGNCCACC CCTCCCTACC CCCAGTATCC TCTCTCCTTT
ATAGATCATC CATTAAGTGC CAGACACTGC AGAAGGCACA TTGACTAATA TTAAATATTA GCCAGCTAC CCTGCTGGGC
TGCTCTCTT AGAAATGAGG AAGTGGAGGG TTAAGTGGAT TTCTCAAGGT CGTGCAGCTG GTAAATGGCA GAACCAGGAT
TTGAACTCAG GTGTGCATGA CTCAAAGGA AGACACCACT GAGGCCTCT CTANTGGGTC TGCNTCCCTA CCGGCCCTGG

SEQ ID NO:329: (Length of Sequence = 227 Nucleotides)

GGCTGGGCTA AACTCCAGAC GCTGGCCACC TTCATAGGGT GGAGATGACA GAACAGGACA GGAGCCATGG GGCTCCCGG
GCGGGTAGGG GTGGGTCATG TTCCTTGGCT TGGGGGCAGT TACAAGGGTA CAGTGGGGCT TGTGAAGGG CAAAAGTTCT
GTAAGTNGT CCCNACAGC CAAAGAAACC CCAGAGCCGT CTTCGACTG ACTACAGCCT GGAAGAG

SEQ ID NO:330: (Length of Sequence = 401 Nucleotides)

TGAAATATA TCCACTGTC AGAGGGACAA CAAAGGCAGT TAGACTGTCC TGAACGGTCC TGCTCAGGC TGAAATTTTT
GTAGCACTTG ATCAGTTGCA AAGTGATCTT CCTTTAATA TCTCATTTTA TCATTGGGTA TCTGAAGAGG AAGTGAATT
GGGGTAAGAA TTAGGTTCT TGCCATAGCA TTTGGGTGGC CAGGGTAAGC CTCAGGGTGG AGGACCCTTA AAGAAAACCTC

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TAAGGATTTT AAGGAGAGTC AAACCTCTACA TTCATCCAGG CAAACATCTA CTCCTCCATT GATTAATGEN TCCACTCATC
CGTGCAACAC ATTCACCTCTT TCATCCATCC ATTCATCCAT CTATCCINCA TCAATCCATC CATGTATCTT TCATTCATCC
A

SEQ ID NO:331: (Length of Sequence = 322 Nucleotides)

CCCAACGTTG CCCCGCCTTT GTCTCCAGCG GACTGGAAAG AACCCACCAT TGTGAAGCAC AGAAAATTGC CCGCACTCTT
ATTGGCTAGG TTCCCGACT TCCGCTCTCG GTTGGTGGTT GGCCTTGCCT GTTACCTGTG TTGCCCACTA CCACTCGCTC
CGCCGAGCCC CAAGGATGGA TCGCTATCCC GTAGCCGGGT GTTCCGGAGC GCTCGGGGCA AAGCAGACCG CCTTGCGCCT
ATTATGGGTT GAGTGGCTCT GACTCTAGA TCGGCTCTGT CACTTACTAA TGGGCGGTGT TGCCTTCGCG ACTGCAGGTT
TT

SEQ ID NO:332: (Length of Sequence = 441 Nucleotides)

GGCTCAAGNA ACCTGCACTC TTGCACTCTG GCCTTCTCCC AGGCTGAGCT TTATCATATC ATCAGCAGCA ACCTGGAGAA
AATTGTCAAC CCAAAGGGTG AAGAAAAGCC ATCTATGTAC TGAACCCGGG ACTAGAAGGA AAATAAATGA TCTATATGTT
GTGTGGATTC CCTTCTGGCG TGTGTCAATC ATTCAAAAAG CATTTATTGA GTGGCACCTA TGTCCAGCCT GAAGATGAAT
GTGGTGGGAA GGGGTGGGTG TCACAAAGAC AAAGATGACT TAGATGCCCA CTGTAATCTT GACTGTGAGA AAGAGGGGAT
TCAGGCCCTT TCTCATCCAG TAGTCAATGT GCCATCTCCC CTCCCTAGT CACCTCTTAT CTTCACTTAC CTTCTTTCTT
CTCCTGCTTA TCTGTTTTCC ATCTAAGGCA AAAAGGGGGG G

SEQ ID NO:333: (Length of Sequence = 354 Nucleotides)

AGAAGCGTAG ACCGAGTAGC TTGAGCGCCT CTTCGGTTA CCTTTTCCCA GCGCCAGAGG GCCTTAGGGT TGGGGTCTTC
GCTCAGGCAC AGAGNCCCGA CACGAGCGG CGGCTTCCCC GGGATCGAGG GACGCGCAGC CCAGAGGAGA CGAAAGGAAC
CCGGGTGCGA CCAGATCGGA ACCACTGACC ATTGCCCATG GCGGCCCTAG TGAGINTGGA TTTNGCGGGG TTCGGGGGTT
CCGACGGCGA CCTCGGCGAC CCTCACTCA CGCTTCCTC TTTCNCAGG GNCCTAGNAG CCAGAATGTC ACTGAATACG
TNGTTCGAGT TCCTAAGTAA GTCCCCAGGC CCAT

SEQ ID NO:334: (Length of Sequence = 196 Nucleotides)

CTCCCGCTCC GCACCGCCT TTCCGAGCA GGCTACACCT CTCCCTGGCG CATCTTTACT GGAAAGCCGG CAGNGGNGNG
GGAGAAGTGA GNCCTCTC CGCGCTCCT CGGTCTGCT GCTGAGCGC GGGGATGGCT CCGAGGGGAG AACTCAGGA
AACCACCTCC GCGCTTCCCC CATCTTTATC CAGCG

SEQ ID NO:335: (Length of Sequence = 261 Nucleotides)

TCCGAGAGCT GTCTGGGGCC AACGTGCTGG CTGAGTACTA CTGGCTCANA CGCCGCTGC TGGGGGCCCC TGGNAATNTA
AGTCTGCCCC CGGGCTGTGC CGCCCTCTC CCTGANAGCC CCTGCTNCC TGGGCACAGG GAAGCCTCCA TAGGCTAGTA
GCATCACAGT GCCAGGCCCA GAGCTTACTG GACTTCCCAA GGTCTATGG GACTAGGGCT GAGGGTACAC ATCTGCTTT
TTCCAGAAT ATAAGTTTTG G

SEQ ID NO:336: (Length of Sequence = 191 Nucleotides)

CGGAAAAGCG CTTCGGCCAC ATCCAGCAGC AGTAGCAGCC GCAAGGNCCG GGACTCGAAG GCCACCGNA GNCGGACTAA
GTGTCCTAAG GAGCCGCTT CGGCCTACAA GGAACCGNCC AAGGCCTACC GGGAGGACAA GACCGAGCCT AAGGCCTACA
GGCGGGGGG GTCCNTCAGC CCACTGGGAG G

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SEQ ID NO:337: (Length of Sequence = 279 Nucleotides)

CCTTAGGGCT CCTCCTGACT CCTTCCAACCT CCCAAGTCTG CAGCCCAGGT AAAGCCAGAG CAGACTNAAG GCAAGTTTTTC
 AGGAAACCAG GNGGCTTGAT CCAGACTCAC AATCTCCCTG CAAAAGTKTT CAGAACACAC OGCACAAACA CACACACGNC
 TCACAAAACCT TCTGAATGTC GCTCTGTCTC CACCTTCTCC AGTCACCGAA AGACCTCGGC CTGAATTGGA GCCCGCAGCC
 GTAGCTGTCC CINTCCACCT GINGCCCTCG CGGAGGCTT

SEQ ID NO:338: (Length of Sequence = 339 Nucleotides)

CCACNCGTGG AGGGAGGCAA AGGGGCGAGCA AGAGAGAGGG AGGAAGCCCC ACTCTTTTAA AACAAACCAGA TCTCTGTTRA
 ACTGAGAAGT CCTTATCAC CAAGGGGACG GTGCTAGACC ATTATGAGG GWTCCGCTC CATGGGCCAA TCCCCCTCCA
 CCAGGCCAC CTCCAACACT GGAAATAACC TCCAGCAGG CCGCCTCCA GCACTGGAAA TAATGCTCA GCGTGAGACT
 GGAAGGGGAC TGATGGAGCC TGGWTGTTK TCCCCGCCA GSTCTMACG TGAACGTAA TCCCCAATGC TGGAGGCGGG
 GCGTGGTGGG AGGTGACTG

SEQ ID NO:339: (Length of Sequence = 334 Nucleotides)

GGCACCAGGC TGTCCTNGT CCAGCTAGCC TCACAGGAG TGGCTCTAA AACNGGCGG CCCACNCCAT TTGGAAGCTG
 TCCCGGGTTT TCCGTGAAGT CTTCCCGGC TGTTGCTCC TGGATGGTCT GGACCAACAG CTTGGGGATG AGGGGAGGCT
 CGGGGCAAG GGCAGGAGCC CCAGCCAGGC GCTGGGGTIN TGGCTGATCG AAGAGCTGCA CCACCCNGTA GCTGGCCAGG
 TGAGTATNGG CGTCCACCAG GTGCAGACAC ACATTCTTTT CCTTNACAGC CTCCTTACCC TGGAGTTTAT AGCCAAACGT
 GAGGTGATC CAAT

SEQ ID NO:340: (Length of Sequence = 450 Nucleotides)

GGCCCCACAA TCCCTTCTG GCTCCGGGA CGGGCGGGC GGGGCGAGCG GCGGAAATA ATTTINTGTT TGGTCGTCTC
 TGCCCCAGTC CCTTCGCCG GGGACGGCGA GACGGGAGAA GGTGCGGAA GCGGAAGCA GGAGCGGGAG CGCGCGGCC
 TGGCACGCAT AGGGCGCGG AGAGGGCAG AGCAGGGATT GAGCACCTAC TGINTGCCCT CACGCTTTAC AAAAGGATTT
 TCGTTCGATG TTCACTACAG CCCTGCCCC GGGGTACTGA TGCCCCATTT ACAGAGGGAC AAGCCGGATT TCGGAGAGGT
 GAAGTCACTC GCGAAAAGTC GCACCGCCAG GGTCTGCGTG ACACCCATAA GCAGTGTTC GTTACCCCGG GGAGAGCGCG
 ATGAACTTGA ACCACTTGTT GGCTTGGTTC CTGCTCTGTC TCGTTTTTTT

SEQ ID NO:341: (Length of Sequence = 192 Nucleotides)

TTCAAAACCT GCGGACAGG CTGTCCCTC GAGGCCGGC CCCTTCCCT TCCGGAGAGC CCACCGCTGG GTCCTAAAGC
 CCACCGCTGG GTCCTAAAGC CCGCCGGTIN TTTACCCAGG ACGGGGCTGG GGAAACCGG TCTTTCCTAG CTCTTGNTT
 ACTTCCTGGA GACTTCTTAA AACGAGAGGA GA

SEQ ID NO:342: (Length of Sequence = 229 Nucleotides)

GTGGTAACTT TTTTAAAAA CATAAATACC ATACAATTCA TCCTTTTAAA GTGTGTAATT CAGTGGTTTT TGGTATATTC
 AGTGTGTCAC AGTCATCAC ACTAATCCA GAATATTTT ATCACNCCA CGGCTGTATC TCCATTTCT CTCTTCCCKG
 CAGATCCTGG CAACCGCTGA TCTACTTCT GTCTCTTACA GACTTATCTG TTCTGGACAT TTCACATAA

SEQ ID NO:343: (Length of Sequence = 229 Nucleotides)

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TGCTCCAGGA AATTGGAGTT CNAGCTGAAG GCCTTGCGNC ACTCCGNGCA CTCGTAGGGC TTCINGCCCG INTGCGTGG
 TCGGTGCTGC ACCAGCGTGG TGCTTCGNCC GAAGACTTGC CGCAGTCCGG GCAGCGGAAG GGCTTCAGGC CGCTGTGTGT
 CTCCTGGTGG TGGATGAGCT GCGAGTNCGC GCGGAAGGCC TTNCCGCACT NCCTGCAAGC GTAGGGCTT

SEQ ID NO:344: (Length of Sequence = 227 Nucleotides)

TCCGCAGATC ANATTCAACC TTGCCAGAGG TCAGGSCCCC CGGCCTTGGC GGCGGGCCAG AAGCGTGACT TGGCCTSCITG
 GAATGCATGC CCTTAAACAT CTCAGACTA GGGGCAGTKT CCGCCAACCA TGGAGGCCCT CCATCACCAT CCTGCAGCA
 TCACCACNT CCAACCCCA TGTCACCC TGGNGNTTCC ATACCTGTAG TAAGAGAGCA AACCATT

SEQ ID NO:345: (Length of Sequence = 249 Nucleotides)

GGGCAATGTT GTCACAGATG TGTGAGATT TTSCAGAGGA CATAAGTTGG CTGTGAGGWA GAACACAGAG GTTSCCTATT
 TTTTAGGCAG GAAAGAAAGC CTGCACTTTT CTGTGTGTGT GTNTCAATAA ATCTGAATAA CACCTTGAAA GGGTTAAAAA
 GCTGAGCACC AGGTGTTTTT TTTCCACTTT CCAGAGTAAT TTAAGCACAC NSCAAAGTTA TCTCCCTTCC TTCCCCACGA
 GCCAGCTTA

SEQ ID NO:346: (Length of Sequence = 356 Nucleotides)

ACCTAGTCCC GCAGCCGCTG CAGCCGCTGG GTTGGCGGAA GAGCTGGACG CCGAGCTAGA GGACGAGGCA GAGCTGGACA
 CAGTGGCGGC GTGAATTGGC CACINCTTTC GGAGCCCGAN CTCTCCGCA CTGGAGAGGA CTTCTTCTTG GCTGGGCGGC
 TCTTGGTTCC GCTCCGCTC TGCTGCTGCT GGCGGCATTT NGCGCGCGG TTCTTGAACC AGACCTGCAG TGGGCGGAT
 GGGGAGAGT GGGTCAAAGG GAGCTAGGGG AGCTTNTTGC TCCACCGNC CGTGGACCCA ACTCCCGTTC CAGAATATCG
 CAATCCCTTC TCACCGAGGC CTTCGACCCT TCCTGT

SEQ ID NO:347: (Length of Sequence = 155 Nucleotides)

GCCGCGGTGC GTCGGATGCC CAGCTCGGCT CCAGACCCGC GGGATGCAGA CCGGTTTCAG TCAGGCTTGA GGGCTGCTCC
 GCATAGACCA ACGTCCGGGG AAGGCACACA GTGGCCGAGG GCCCGCGCGC TTKGGCTACG GCTGTRATGG TATCT

SEQ ID NO:348: (Length of Sequence = 362 Nucleotides)

AATTCOGATT TAACGATTG TCTATTCTG CTCATACATT TCAAGTTTAA ATGCAAGCAT AAAATGTTTA TCAACAAATC
 TAGAGAGCAC TTGGATTTIN AATTTTCCIG TGATCACAGT AAGGAGCATA AAAAAGAGTA TCTNCTGTTA CACAAGGCCT
 GINCTCTCTT TACATCTTCA GACTTAAATT CTGTAGAAGG TAACAGCTTT GTATTAAAGGA CAGAAGCTTA GTGGTCACAA
 ACAAAAATA AACTTGAAAT ACAATTGGG NATTANTGAT ACTGTGTGTC TCAAAGGATA CCTGAACCTAT TACANTINACT
 AATAATTTGG GCAATGAGAT TCCNGGTGN TTCAACTTTT TG

SEQ ID NO:349: (Length of Sequence = 342 Nucleotides)

AATCCCTTTT TTTTTTTTTT TTTTTTTTTT TTTTCAAGTAT CACAATGTTT ATTGATAGAT ACAAGTATAT
 AAAATCAGGG CATGANCATG ACTTGATAAA TTAAGTAGAC TTAATTTCAA TACTATAATA GGNGGGACCA ATTCAAATTC
 TCACCATTTG TTTCACACCC ACAAAAACCA CTTCAGGGC ATTAACGNTC TCTCAAACT GNTCAGTTT GTGCAAGTAA
 ACCATGTTTC TTTTAAAAAG ACTGTGTCAC TTGCCAGGC TCAAGGTTAT TAAATCTAG GCACATAAAG NCCATTACTA
 GAGGTAGGAA ATACAGGCAA TT

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SEQ ID NO:350: (Length of Sequence = 384 Nucleotides)

GATCTGTGCT AGCTGTGAGG CAGCTCTGGA ACGTGAAGAG CTGTTTGGTT TGANCCGTGA ACAAACTGT GTTTGTAGTT
TAGCTGACAT TAAAGAAAAA AGTTCATCAC GTGACTGTTA ATGTAAACCT GGTTATTAAA ATAACATTTT AAAACAGGAG
AAATCTGGTA AGTTGTTAGG NITCTAAAT CCITTTAGTC TGTTCACTGA GATATTAAAT TTCAGTAGAC AGAACCCAAA
AAGAGATTTT ATTTCTTTCT AATCACTTTG GCITCTINTCT NTTTTNTTAA GTAGGTAAAA ACCTTCCTTG GTGGGCACCT
AAGCAGGATG CAGCCAATTA GTTCATGAAC CCAGCTGCGG ACGTGAAGGC TTAAAATCTA AGGA

SEQ ID NO:351: (Length of Sequence = 305 Nucleotides)

ATCCTGACCC TCCCCACTGC AAGCCAGGG AGCCCCAGCC CAAGATGGCC AGCCTGAAAC TGTTGGCCAG GGCTCCTCTT
GTGGCCATGT ACCCAGGGCT GGCTGGCCTG CCATTTGCCT CTCCCCGGAG ACAGCCGTTT TTCTGCAACC ACACCCCGTG
CCTAGCCACA ACCCAGGCT GCAGCTGCTC AGAAGCTCCA GGCATTTTGT TTCTGGTGAC CGCCCTAAT GGGATATCGG
TGATCACTGG TCCACCCTTC CTGTCAGGC TTTTCTGGG GCTGCTCTTG GAAATGAAGT CTAA

SEQ ID NO:352: (Length of Sequence = 270 Nucleotides)

GAAATTACCC ATGGTCATAT CTAGCCTACA AAGAAGAGAA AATACAGTGA TTCAAGTTTC ATTGTATTCC TCTCATTGAT
ATATTTATCA ACCTTCCAAT TGAAGGAAGT GTCTTCTAGG CCTTTACAAA GAATGTAACC AGGGTTTAGG TATACAAGTT
GCATATGATA AATCTGTCAT GTTCTATAT AAATCTGTCC ATATTCCTCT TCTGAAATGC ATTATTTTTG GGGGAAATTA
AAATGTGATG CAAAGATCCT TATACTTTGT

SEQ ID NO:353: (Length of Sequence = 195 Nucleotides)

GTGTGATTCC ATTATATGA AATGNCAGA ACAGGGAAAA CCTATTNAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT
GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TNATTGCTTC ACGGGGTGAT GACAGAATGT NCCAGAACGT GACAGAGGTG
GTGCCCTACAC AACTTTNIGG NTGTACTAAA TGCCG

SEQ ID NO:354: (Length of Sequence = 388 Nucleotides)

GCCAATTTTT TTATTTTTGT AGAGATGGAG TCTCCCAATG TTGCCCAGGC TGGTCTTAAA CTCTAGGCT CAAGGGATCC
TCCCAGCTGG GCCTCCCAA GTGCTGGGAT GATAGGCATG AACCACCAT CCCAGCCCAT TTCTTTTTTC CCTTTGCACA
GTACCAGATA TATGGTTGGT ACTGCAGAAA TAATTTCCCC CTGCCCTCTA CATTGATCAT TTGATGACCA AATAGTGTCC
GTCTAGCCAC TTATTTATGA TTTGTACAAA ACATTCCGCT TTCTGAGGTA GACAGTGATA TTCTGAAGCC ATCAGTAAGA
GTAATTTTTT AGINTGTGTG AAAGTGGNCA TTCTTTGTGT AAAGGTCAGC CTGTCAAGGA AATAGCAT

SEQ ID NO:355: (Length of Sequence = 288 Nucleotides)

TAAAGTGAAG TATTGGGAAA GGAACATCT CACTCTGATA GATTTGAATT TNCTATTTCT GCTCTGTGAC AAAACCTGA
GTTGATATGT GATCAGACAT TTACAAGGCC CTGCATTCTA CCTGGNAATG GCTATAGTGG TGTGAGCTG CTGTGAGATG
ATTTACTGCA ATTTGTCACT TTTTGAACT GTTCCAAAT AGTCTGCTGA CAGCCCTTCC CCTCATGAAA ACATCTCTCC
TTTTCCAGTT AAAAAACAG TCAAAAAACA CAAAAAAGG CCACCTCC

SEQ ID NO:356: (Length of Sequence = 401 Nucleotides)

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GGAAATTAGG TTGGTTATTA ACATGTATAG ATGGAAGTGG GGTGAAAAA AAAAGGAAAT GGGAAATGGAG TGGAAAGGGTT
 GGGTGGGAGA GACACTTCAC AGTATTCTTT TTGTTTTGAC TTTGGAAATG TTAATATTTC ATAAACTTAA AAAAATGCAA
 AAAAAAATA TCAAACTAG GTAGGAAGGA GAACAAAATG AAATATAACC AGAAAGGAAT AANCCTAACA CATTTTGAGT
 GAATCACAAA GCCAAACCAA AAAAGAGCTA ATTTAAGTCA CTTTTAACT TGGTGTTTAA CTACCTACAC TCAGTCTAAA
 AACGGAAT AAGGGTAAAG AAATAGTGA ACTCTAGTTA GTTGGGTCTT TTCTTTACAG CAGTATGGGG ATGGCAACCT
 G

SEQ ID NO:357: (Length of Sequence = 275 Nucleotides)

CAGACAGTGG ATAATAACA CCTCATTAGG AAACCGATCT CAGAATGANC TCTGGAGTAT GAAAAAGATC ATTCTTTTTT
 GTNCTGTAA CCTAGCATTC CTCTAGGCT TCINCTCCTT TAATTGAACC ACAGCTTAGC TCATGTATTC TTTTATTAAC
 ACCCTGCTCT CATGTCCATA AGATTACAGGA ATTTAGGAAA TNAGGCTGGT TTGAAGAGGG TAGAAAGCAA TAAAGGCAGN
 AAAAAATAAG NCTAAAATCA GGGGAAGATG TATTT

SEQ ID NO:358: (Length of Sequence = 314 Nucleotides)

GTGAAGGAAG TATGAAACT GAGACTAATA TTATGAAGTC TTTTTTAAAT TCTTTATCTT ATTGCCCATT TTTAACCCTT
 TGGTGTTTGA AATGGAAAAT AAATATNCTC TTCGCGATAG ATAATATGTC AATAACCAA AGGIGGCCCTT AACCAATAAT
 TGGCCCAACT TTAAATTATT ACCCTAAAGA TATATAAATT ANCTAATCTA AAATTAAATG CAATTTTGCT ATGACTTAAA
 GTGTCANTAA TCCTGTATAA GNGATCCNNT TTATGCAGTC ACTTAGGCAT GAAGTTGGCA ATTCATCTAA ACTT

SEQ ID NO:359: (Length of Sequence = 372 Nucleotides)

CAAGAGAGAC ATAGCAGGCA TTGAACAAT GGAAATGCC ACATAGCAGA AGGGAGTGAG GGGATCCAAA CTACAAGAGC
 GACAAAATCA ACTGTGGATC CAGAGACGAA AAAATGTTCT GTAGTGCAA GGTAATCTGG TGAGATGAAA AAAAAAGAAC
 CATTTTTAGA AAAANGGAAT ATTAGAAATA TTGAAGTAAA TATCATAAGT CATTCTATTA CAAAGGCATT AACTCCTTCC
 TATCAATAGA ATGTACCAGT TTAAANITT TTAGTAGGAA TATATCTTTT ATTTTATTAA CAGAAATCAN GGGACAAAGA
 GGATTTGATC CATCCATACT TCCTACTCTT ATTGGGTTTG TCAAAATGTA GG

SEQ ID NO:360: (Length of Sequence = 395 Nucleotides)

GCATTCTTTT GATACCCACC TAATAAGAC AATCTCTAAA ACCAAATAAT AGGCTATGAA ATGTATTGTG AGTNCCTATT
 TCATTCAAGA CAGAGCTTAC CTTTAAGTCT CCAGCTGAGA CAGTTGGTTT TATCTTTCTG AAAGCAGTTT GGTCAAGTGT
 TTCAAGTAAA TCAAAAGATC GGTTAATCAA TTCCTTAGCG AATTGGATTA GACACTCTCA TTCAAATGG CAGTTTTATG
 CTTACTCATT GTCTTGAATA ANCTTAAATA CTTTATGCTA TCTTCTGCT CATTATTTA TGTAACTACT GGNCCCTAG
 TATCTGCTT TAGNNCATAT AAAATCACTT NCAGGTATTT TCCATCAGG ACACAGAGGC AGGCACAAAT TAACC

SEQ ID NO:361: (Length of Sequence = 298 Nucleotides)

ATTTTTTGT GGGGAGAACA TTTAAGACCA TTTCAATGTC ATGATGAAAG CTAATGGGAG AAGGCTTTTN TNCTACAAAA
 ATTINCTTTA TTTTINCAAC TTTATGAGG TTATAATTGA TATTAAAAA CTGTACAGAT TTAATGTGTA CAGTCTAATG
 AGTTGGGACA TATGCTTACA CCCNIGATGC TGTACCACA GGCAAGGTAA TACACATATC CGTCACCTGC AAGAGTTTCT
 GIGTTCCCN NIGTTTCTCA TTTTGNTTTT TTCAAAATTT TACTTTATAG GGTATAG

SEQ ID NO:362: (Length of Sequence = 437 Nucleotides)

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ATGCTGGAAG TGATTTCTGC AGCTCAGGAT TTTTITTTTA AGCTACATTG AAAATATAGG TTTATTTTTT GINCAGGTTT
TNCITTTTATA TTTTITTNCT GCACAAAGGA GGAGGATTTT CCACTTACTC ATATCGAGGC CAGATTTTTA AAGCCAGCTA
AGGCAGCATC AGCTGTGCGG GATTTAAAGC CTATAGCTCA GCTGAAAAA AAGGTGGGGT GCGTTTCAT GTAATGGGAC
ACGATGCCCT TCTTGCTGAA CGACTGGAAA GAGCACAAGG AGCACTTTTC CTCTCCACT GCCCGCOGGA GTTCCTCGCT
CAGCTGAGGG GAGTCGTCTT TGGGCGGGGA TGGGATGATC ACTTTGTGG GCTTNTCGCT GATGGTCTG GAGGCTGCCA
AGAAGTTGAG GTGTAATACG CATCAATGTC CGTGGCG

SEQ ID NO:363: (Length of Sequence = 449 Nucleotides)

TGATTTGAAG TAAGCTTTC ATGCTTCACT TAGGGTGGGA AATTTTAAAT ATCAGAGCTT TCTTTGTTAG CAGCATATAG
TTATGCAATT TATTTAAATC TGCAGTGCCA ATCTTTTTT GATGGGTGTG CTTAGACCAC ACATTTAAGA TAATTATTAA
TATGTTAGAA CCGAATATAT TTINATGATT AGTTTTTATG TGTCATTTG ACTGAATTAA GAGATGCCCA GACAGGTGGT
TAAACATTA TTNCTGGGTA TGTTTGTGAG GATGTTTCCA GAAAAGGCTA GCATTTGANT CAGCAGACTG AGTAAAGAAG
ATAAAGATAA TACTTGTCTAT GTGTACAGGC ATCATCCAAT CTGCTCAGGA CCCCAATAGA AAAAAAGGT GGAGGGAGAG
TGAATTATGT CTACCCCTT GAGCTTGGGA CAGCCATCTT TTCATGCC

SEQ ID NO:364: (Length of Sequence = 282 Nucleotides)

GACTGTGTAA ATACACTTTA TTTTCCATT TNCCCGCTG GCGACATGT GAACAGGCAG TGTGCAAAAT GGTGGCGGGC
AGTGTAGGGG GCGTGTGGAG AGCCCGTGG GTGNTGCCC CGGTCCCGAG GCTTCGTAACT ACTGAAAAGT GGGCAGCTAG
GAAGCGGGGA CGGAGCAGGG GTCCCCACCC AGGAAGCGCC AGGAGATTN CTGTAAACGC TACTCTACTG GAGGCTCCGG
GAGCACCAG NGGGGCAGTC CCCAGGGTCA TGAGGCCGG GG

SEQ ID NO:365: (Length of Sequence = 349 Nucleotides)

TTCAAGCATT TCTCTGCCT CAGCCTCCCA AGTAGCTGGG ATTTACAGCAG CTGCCACCAC GCCCAGCTGA TTTTGTATT
TTNAGTCAAG ATGAGATTTT TGCCATGTTG GCGGGCTGG TCTTGAACCT CTGACCTCAA ATGATCCGCC TGCCCTCAGC
TCCTAAAGTG CTGGGATTAT AGGCATGAGC CACCACANCT GGNCTTTTN TTCTGTCTCT AACTGTCTCC TTTTATTTCC
CTATGGAGCA TCTACTGAGC CCCAGCCGAG AGTAGAACA AACCTGCTGG CTGCTCTNAA GGCACCTATA GTCCAGTTA
GGGNNAGC GGTCACCTAA CCACTTAGT

SEQ ID NO:366: (Length of Sequence = 366 Nucleotides)

ATGCAAAGGA ACAATGGTGT TGGCAAAGTC TTCTTTGAAT ATCAGAGACT GAGTCAATAA AAAAAATAGT AGAAAGGTGG
CTTTTACTAT TGACAAAAGC CGGGTCAAA AAAAGTAGTT TAAGTCTTAA GNTGAAATAT GCATTAAAGT ATGCAGGTAG
CAAAGATGTA ATAAATTTCC TTAAAAAAG AAATTAAAGT TTTATTTAGA ATCAATTTTA CNGTCATTG TAATTGACCC
NTCTGAGNAT TACAATAAGC AAGAGGAAAT TAAGGTGTTT TGCAAGAGCT GTATTTATAT TACNGTTTTT TAAAAACCAT
TTTCTGAATT ATGTAATTA AAGCTCTCCC AACTCGTTTA AGTCAG

SEQ ID NO:367: (Length of Sequence = 391 Nucleotides)

GCAAAAACAA ACAACAAAC CTTTAAGTAC AGTAGTTCCA AACACACTG CTAAAGTTAT GAAATAATTG TGGATCATTT
CAAGTAAAAA TTATTAAAGG AGCAATAATT AACCACAAGG GGCATATAT ATATATNCNC CTTAGATTCC AGCAGAAAGA
CTAGTTTTTA GTAGTAACAT GCACGTGAA GTATTCTACA TTTTCAGTCA CITAACTTT CCTCTCTCAG ATGGCTACAA
CTTTTTAATA TTCGAGGNT ATTTTATATC TAAGTAAAG GATTCCAGAA TACTCCTGCC CTGCAAAACA GTAGTGTMTT

AGAAGNCTCT NGGAAGTGT GCTGTTTACC CTTTAGCAAA GNGNTACAAG AGCTATTAGT TGTAAATAATA C

SEQ ID NO:368: (Length of Sequence = 370 Nucleotides)

ATTTCCCTTC TGCACCTGGT TCTCCTGCTC CCCATTACAA TGGTTTACTT CATTTTCCTC TTCATCCATT GGATTCACAT
GTGTTCTAGG CCAATATTCC AGGNGTGCCT GGAGTAAAAG TCCTCCTAAA TTCAATTTTG GNTCTGACCC ATCAGGGCTG
CTGAAACCAG CATCTTTTGC AGAAACCCAG GCAGCAAAAC AATCACTTTC ATCCAAAGTA ATAGTTAACA TCCCTGTTTT
TAAGTCTACT GAGAACCAAT TTGGCACATA CACCATTTTA AATCTTTTCT TAATTTTCATC TTCAAAATCC ACTTTGCCCA
GATCTTCAAC TTTACATGGC TTCAATACAT CCAATATGN CACATTATTA

SEQ ID NO:369: (Length of Sequence = 315 Nucleotides)

GACAGGTATT CTTTAGAAGT TTTTGTGTTA CTTATGTTTT NCTCTTTTAC ATCTCCTTGT GAATTTCTGT CCCATTTTGA
AGTCTCTCCT TGTCTCGAC CAAGATCCCC TTGATGTTCT GTAGCCAAAG ACTGAGAAAA AGAGTTATTC TGAATGATGT
AGAGGTTGAT AAGTCTGGTA AGAACTGTT GGACATACTC CAAGCAGCAC TGCATTCAG TCTTTTGGGC TGTCTTCCTA
CTCGGGTTC CTGTCCCTG AGTGACTACG GAAGGGGTCT GGATGATGGT TTCTTCAGAT CCCACAGTGG ATGCT

SEQ ID NO:370: (Length of Sequence = 442 Nucleotides)

AACACTTTTA CACTGCTGGC CTAATTTGTA GATATCCTCA AGAAGATTAT GAGTCATTCT CACTACCGGA ATCTGTTCTT
CTATTTTNTT TACCAATGGG TGCACCATTG AATGTTGGCC ATCAATAGC AAATACCCCTC TGCTGTATTT TCTTACININ
GTTTAACTG GAGCCTCAGC TGAAAAGGTT TATGGTGTCT CTAATCAGTT TTATGAACCA TACTCTGAGG AGAATCTCAC
AGAAAAGCAG AGACTTCTTT TGGGTTTAAAC ATCAGCAGAT GGGAGTCTG ATAGTTCCAA AACAATTCAT ACTAACAAAT
GCATCTGCTT TCTTTCTCAC TGGGCTTTT TTTGATGGCA TTCAGGAAGT TTCCTGACTT TNCCTGATCG TTAATTCAT
CTCTGGGGCT CATGCTCTTC CAATTGAGGA GGATAATTC CA

SEQ ID NO:371: (Length of Sequence = 441 Nucleotides)

GACAAAGTCA CTCAGGGTCT ATTTACCCAT ACCCCAAAGT AAAGGCCCAA ACTCCACCGG GGCCAAGTNT TTCTGGNTCA
AAGTCACCAT GTCCCCAAGA GAAGTCTAAA GACTCACTAG TTCAAAGTTG CCTTGNTCC CTCTCTCTCT GTGCAGGAGT
AAAATCTAGC ACACCACCAG GCGAGAGCTA TTTTGGTGTG TCATCTCTGC AACTGAAAGG ACAATCTCAA ACTTCACCAG
ACCACAGATC TGATACITCA AGTCCAGAAG TGAGACAGAG TCATTCAGAA TCACCATCTC TGCAGAGCAA ATCTCAAACA
TCACCTAAGG GAGGTGGTTC CAGGTCTTCA TCTCCAGTCA CTTAGCTTGG CATCCAGATC TCCANTAAGG NCAAGATAGA
GGTGAGTTCT CAGCGAGTCC TATGTTGAAA TCTTGAATT T

SEQ ID NO:372: (Length of Sequence = 362 Nucleotides)

GAGGTATTGT TGTTACTGGG AGGTTGAAGG GAACACAAAT TCAGTTATAA GTCCTTTTTG AATACTAAGA GGGGAATAAT
TAGGGAAGCT AAGAGGGGAA TAATTAGGAG AAGAAAAAAA AACTTCAAAC AATTTTCCCT GTAACATGAT TTTACTTGCA
TTTATAAAT GATTTTTTTT TCTAAGCACT CCTTTGATAA TGATTAAGTG TGGGGTTACA TTATTTNAGG GTCGTCTAAT
ATTTAAGGTG ACTTAAAAAC CTCACACAG TTAATCCCGA ACTGTGAAAA TTCTCATCT TATCATCCCT CTGTTACTAT
CAATTTTCTT CACGGTACAG ATTCTTTTAT AATTACTTCA TT

SEQ ID NO:373: (Length of Sequence = 306 Nucleotides)

ATTCTTTGTG CGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG
ATATTAGTTT CTGTGTAGAT GAATAGTTTG TGAATATGTT CTCCCATTC AAGAGTTGCC TCTTCATTCT GTTGATTGTT
TCCNTGTATG TGCAAAAAC TTTNACTTTA ATATAGTTCT ATTGTGTTAA TTCTGTTTTT CTTACCCATG CTTCTGAGAT

CTTAGCCATA AAATGTTTGC CTAGAACAAT GCCCTGGAGT GTTCCCTG AGTTTTCTTC TGGTAG

SEQ ID NO:374: (Length of Sequence = 278 Nucleotides)

GGGTTTTGGT TGAGGTTTCT ACCTCATTAT CCAAGATATT TNCITTCAG CCAGCAGAAA GAAAAAGGAG AAGAGCTGCC
ACCCTTTGTA TCCAGGATGA TCTCTINTG AAATCCTTGA TTTAATTATA TCTGCATGAC CCTTTNCCCA ACTAAGGTTA
TATCCACAGT TACCGGGGGT TAGCACTGGG ACATCCCTTA TTTTANGAAC ATGCTCAGA AAGTTGCACA AAAAATTCT
ACTACATCCC ATTGGCCAAT ACTTCTTACA TGATGACA

SEQ ID NO:375: (Length of Sequence = 321 Nucleotides)

GGTGACAGTA TTTTTGTGG TTTCTGTAGC TCCAGCCCT CAGAAGGGAC GCCTACAGTT GGCAGCTATG GCTGTACCCC
TCAGTCATTG CCCAAGTTCC AGCATCCTTC CCATGAAC TGCAAGGAAA ATGGCTTCAC ACAACACGTC TACCATAAGT
ATCGTAGGCG CTGCCTTAAT GGTAAAGAAGT GTGGGGGGCA GGAGATGAGC CTCTGGGCC GTTATTTAGA CCCAGAGTAT
AAGAGTTGGG GGATACGGGG ATAGGTGACT CTTTCTCTG ACTTCAGAGC AAAAAAGA CATGACATTA TAGCAAGAAA
G

SEQ ID NO:376: (Length of Sequence = 337 Nucleotides)

GGAAATTTA CAGCATGACT ACATATGTTA GGAAAAAAT ATCTAAAATC AATTAACTAA GCTTCCATCT TAGGAACTA
AAAAAGAAG AGCAAATTAA ATCCAAAGTA AGAAGAAGAA AATAAATAAT AAAAATTAGA GCAGAGAGAA ATGAAATTAT
GAACAGGAAA TCAATTTTAA AAATAAATGA AACCAAAAGC TGGTCTTTG AATCAATTAA TAAATTGAT AAGCCTCTAG
CCAGACTAAG AAAAAAGAGG TAGGGCACAA ATTACTAATA TCATAAGTCA AAGAGGGGAC ACCCCTACAG ATCCCATGGA
TATTAAAGG ATAATAA

SEQ ID NO:377: (Length of Sequence = 455 Nucleotides)

GTTACAATTG AGAAAACATA TTTAATAAAT CATGTGCAAT TTNATAATG TTTCAAGCCC ATTCTTGTGTT GATAGCCTCC
ACATTTATAT GGTAAAGTCA TTGTTGCTGT GTTCTTACC TATGACATTA TTTINATATC CCTTCATTTG TGGATCTTAA
GATGTTGCAG AAGGTTCAIT CCGTACCCC AATACAGATT CACTTCCTTT AGCTGCCCTT NCTAGCACCA ATATGCTTTA
AAAAAAATG CGCAACAAC AAGCAGTGAC AGCGGCAAT TCTCGAATG TCCAGATTAA TAACGTGAGC ATGCTAAAGA
AAGGTGTGTG TAAATAGCTG GAGATGGTAT ATGGTCCAGA GTCCAGCATA AAATTATTTT CTTTCTGAGG CATTCCTCC
ATTCCCCTAA CCGGATACA TGCATTAGGA ATGTAGCAAA ACCCTTCGGG GAACC

SEQ ID NO:378: (Length of Sequence = 349 Nucleotides)

GATGGTCAAG GTGTTTATT ACTGGACATG CTCTATGCTT ACTTGCTTGA AAACGCTCCA TTAGAAAATN AACTCTGAAA
ACTATATGCC CAATGCTAAT AGTGGGTATT TATTGGTAAC ACTCTTTATC AGGTGCTATG ATTGTGTATG GCTTTATTN
CTNCTCATA TTINCTATAA TTNCTACAAT GAACATGTAT GTATAATCAG ACAAAAAGC CAAGAAATAT CCATAAGTTT
TNCITGTCAT TCATTCATCC CATAAATACT TGCTGAGCAC CTGCTGTAAG CCAGGCTCCG AGCCGGCTGC TGGGTGGAGT
GCCGCACCCC AGGGAACGGT CAGCCCTCG

SEQ ID NO:379: (Length of Sequence = 421 Nucleotides)

ATTTTGAATC ATATTTTACT TATAGGTTTG CTGTATATAC TGATTAACT TCTGAACCTA AAGATTCTCT ATAATTAAAC
TAGCACAAAT ATAATCTGTC CCTTACCCAC ATGTGAAGAA TGTCTGGTGG GGGAAATCCA ATATTGACCT TCACATTCCA
CATGGAAAAT CTTTGTCCCC AGAGTGCAAT TAGGGTGATT AAAAATAAGC AGCTTTGTG AGTCTCAAGT TTGTTCCCCA
ACAAGCAGC ATCAGCAACT GGAAATTTGT CAGACATGCA AATTATCCAG TCCCACCTGA GACTTCAGCC CAGATCTATG

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GATCAAAAAT TTTGGGGGTG ACCCTGGGCA ATATGGGCTT TAATAAGNCC CTAGGATGGG TTCTGATGCA TGCTCCAAAT
TTGNGGATCA TTGNINCINT G

SEQ ID NO:380: (Length of Sequence = 311 Nucleotides)

ATTTTNAGAT GGAGTCTCAC TCTGTGCCCC AGGCTGGAGT GCAGTGCCAT GATCTGGGCT CACTGCAACC TCCACCTCCC
AGGTTCAAGC AATCCTTCTG CCTCAGCTTC CCCAGTAGCT GGGATTACAG GCACCTGGCT AATTTTTTTT TTTTTTTTTT
TTTTGAGATG AAGTCTTGCT CAGTCGCCAG GNTGGAGTGC AGTGGTGTGA TCCTGACTCA CTGCAGCCTC TGCCTTCCGT
GTTCAAGCGA TCCTCCTGCC TCAGCCTCCT GAGTAGCTGG GACTACAGGC ATGCACTACC AACTTAGCT A

SEQ ID NO:381: (Length of Sequence = 442 Nucleotides)

AATCTGIGAA CATATATTTT NATTTATCTT AAATACCTAA GAGTGAAATT NTGGTTTCAT ATGTGGGTAT ATATTCAACT
TTGTAAGAAT CTACCAAAAT GATTTTCCAA GTATATGTAT AATGTTATGG TCATCAGANC TACATGATAG TTAGAGTTGG
TTAACATACT CACTGCAATG GATTGACTTT CCTGTGATTC AGCTATCCCA CTCTTAGGCG TATACCCAAG AGAAACTCAT
AATGTCTTGG TGTGCAGCTT GTATGCTAAT GATTTTAGTA GTATTTTTTG TAATAGCCAN AAGGTGGAAA CANTGAAAAC
TTTCACGGAA ATGATTAATG AATTAACAAA ATATTATATA TCTATATATG ATCCATTAAAT CAATGAAANG GANTGAAGTG
GTATACAGA AACACCACAG GTTAACCNNT GAAAGTATAT TA

SEQ ID NO:382: (Length of Sequence = 337 Nucleotides)

AACAGACTTT GGAGCCANTC CCATGTGAGT TTGAGTCTCA GAGTGACTCT GGGCAAGTNA CTTAGGCTTT CTGAGACTCA
CTTTCCTCCT TTATAAATCA GGAAGAATAA TCCATTGCTC ATTGAGTTGT TAAINAGACA TAAATGAGAT AGTGTATCTA
AAATGTGATT TGTTAAGTCT AATACGNAAT AGATGCCTAT TTGAGTGTTC CTNATACTCA GGATGGTTCT TGGGATATAT
TTNCCCATGG AACAAAAAGC AGACTACTCA TGACCACTCG GATTTTATGT TCAGCCACAT TAGGGCTCTT ATGGCCTGAC
CTGAAGACCT ACCATT

SEQ ID NO:383: (Length of Sequence = 421 Nucleotides)

GTGAAACTGA AGAAGACCAC GACAAACGAT CGCTCAGCCC CTCGCTTTTC TTAGGTTTAC AAGAAATGCG CCGGTGGGGA
ATGAACINTT TCATTAAATA AACCTAATTT GTCTTGATCC ATTCCACTCT ATAATAAAC AAAAGATTTT NTAGGCAACT
CGGAATATAG CTCCTTTTGA AGTACTCGAC ACCTTTAGAT AAGAATTAAA ACCAACCTAT GTAACGACA TAATCTTGAT
CINTTAATTT GTAAATATIG ACANTTINCT TTCTGCACAT TTAAATCTTA GTTTCCCTTT TGATTTINCT GAAGGTGCCA
AATTCATTAT AACINCITTA CAAGTCCTTG TAAAATTTTA AATGCATAAA GGGGGGTGG GGGCAGGGG ACCNCGGANG
TAGTTTAATT TTCGGAAAGG G

SEQ ID NO:384: (Length of Sequence = 420 Nucleotides)

GGACTCCGTT CCCAAGAATA AGTTTTGCTT GGGCGGAAAG TATGTGGTTC ATCCGAAAAA AAGAAATCA ATGATTTGTG
GCAGTCTTTC ATGTGCTTTT GGGCAATTNC ATATCTTCTT TGGAGAAATA TCAATTGAAGA TCCATTGCCG TATATACATA
TATTAAAATT ATGGGTATG TATTATGGCT CATACCTGTA ATCCCAATGC TTTTGGATGT TGAGGCGGGA GNTCACCTG
AGGTTAGGAG TTCGAGACCA GCCTGACCAA CGTGGTGAAC CCTGTCTCTA CTAAAAATAC AAAAGTTAGC CAGGCATGGT
GGCATGCACC TGTAGTCCCA GCTACCCAGG AGGCTGAGAC AGGAGGAATT GCTTGAACCC ANGAGGCAGA GNTTCCAGT
GAGCTNAGGA TTGTGCCACT

SEQ ID NO:385: (Length of Sequence = 404 Nucleotides)

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GTGACAAATG TTAAGAAATT GTGTGTCAAG CAAAATACTT TAGAGGCCAA TGGGCCACAT GTTTTAAATA TCAAGAGATT
 ACACACAAA TTINTTTTCT AGCTTCTTTT GAAAAATCAG AATTGGGAAG ATGTATTCAT GAGTGACTGC TGCCCCCTTT
 GGTGGGACT CGTTCCTTCA GGTTCATTAC ATGGTCATCA ATAACCATTT CCTTGGTCCC TGCTTTTGTC TTGTCTGGNC
 TCTAAGCATT TGAATTTTTA GTATTATAAG AAAACTTAAT ACTTINCTAT CAGTCACCAC ATACATGTGT TTCTATCTGT
 ACTACGNCCT ATTAAGACN TTTTATCAAT AGCCNCCATT TTGGAGGGGG GGATTTCAAC TGGTGCCCTG ACTAGCAAGG
 AATT

SEQ ID NO:386: (Length of Sequence = 267 Nucleotides)

GTCTTGTGGA CATTTACGTG GTATCTTTAG AGCAAACACA GAGTGGTTGC ATAAGCTGCA GTGTTTTAGT ATCGGTGGGA
 CTGTGGCATG GCGTAGAGGA GTNACAGTCG CAAACTGATG GCCCAGCTCT GACCTCCAG GCAAGTGGAC TCCGAGGAGT
 ACCAGCAGAT CTCCACAT GCGTCGGGGA GGGCTCTGGG GAGAGTCAGT GGCAGGAGA GGGTCAGCTG TGCAGGCTCC
 AGGGCCAGC CCGTGCTTT CCCCTCT

SEQ ID NO:387: (Length of Sequence = 384 Nucleotides)

ATTTTAAATG ACATTTTATT TAGGCCAGGG GACCAGGTAA CATTTATTTT AGGAGGAGAG CAAAAGGTGT TATATTACTG
 CTCTAATTA CTTAGAAGGA AAGCATTGTC TACACTGCCA TTATGATTGG CTGCAGCAGT TCAACCTGGC TCTCGGAATC
 TGCCATTAGC TTGACAGCAT ACAGAGCACC ATATCAGGGT TACTATGGGA AGACTCTATT GTGGCATCAG AAACACAAAA
 AACACTGGAT ACAGTTAGTT TCTGTTGACA GTTTCAGAAG AAAATCCAC AGATTGGACA GGCTGCCTGC TGAAAGGGTT
 GTCACTACAC ACAGCATGCC CTGAACCTG GGAATGAAGT TACCCCTATC TGTGGTGATC AGGA

SEQ ID NO:388: (Length of Sequence = 345 Nucleotides)

CTAAGATCAA ATGCAGGCAA AAGTGGTGAA TTTTACCACC TGTTTGTAAG TCTGGGTTTA TAACTTTACC GTAAATCACC
 TAGAACACAG GCTAGCCGAA TCGGGGTGTC TGGTATGGCA ATATCCCGAG AGCTAACCTG GGGCTGGGGC AATGTTCTGT
 GGCTGCTGCA CTGCTCTA ACAGGCCAGT TTAACCGTC CAGTCTCAG GGCCACATTC TCCAGGACAC AGCAGGGAGC
 TCACAGTAGC TCAAGACCCG GCCCAGCCTC CATCCCAGC CTGGAGCTG TCAGTGCTCC CAAAGGCTGA AAGAATTCCG
 TCTTGGCTGA GTGGACAGCC CCTT

SEQ ID NO:389: (Length of Sequence = 156 Nucleotides)

TAACCTGCCC CAGCAGTGCA TGCAAGAAGA CTCTCTGGTG CATGAGGTGA CCAATCTGCC GGTGACAGAA GNACTGATTG
 AGCGGGAGAA TGCAGCCAG CTCAAGAAGT GCGGGGAAC GCGGGGGNG CTGCAGTATC GGCCCTCAGC GCGACT

SEQ ID NO:390: (Length of Sequence = 364 Nucleotides)

GAGTCTCGCT CTGTACCCA GGCTGGAGTG CAATGGCATG ATCTCGGCTC ACTGCAACCT CCGCTCCCG GGTCAAGTG
 ATTCTCTGCT CTCAGCTCC CGAGTAGCTG AGATTACAGG CAGTGCCAC CAGCCTGGC TAATTTGTA TTTCAGTAG
 AGATGAGGTT TTGCCATGTT GGCCAGGCTG GGCTCAAAT CTGACCTCA GATGACCCG CTGCTCAGC CTCCAAAGT
 TCTGGGATTA CAGGCATGAG CCACTGCACC CAGCCCAACA CTGGGATTCT TTTATCCGCT GGCTGGCTCT TCCGAGTTG
 AATTGTGTGA CTCTCTCCC TATCTGAGGC CCAGTTTTTC TTCA

SEQ ID NO:391: (Length of Sequence = 325 Nucleotides)

GAGTGTCCAG ATGATGGCAG TGATGGCCA TCTGGAGCG CTGCTGTAAG GACACTGGCT GCAGCAGGG AGGCACAGCC
 AGGCCTGCC ACTAGGCAGA GCTGGTGTGG GAGCCAGGAG CAGATGAGAG CCCCCTTC TACCAAGTTG GCAGTGAGA
 AGGCCGCACT CCGGGTGCT GATGCCGAGT TCAGCTCCAG ACCCTGGCAT CCTGGGCTN TCAGGGCCC AGGAAGCCCC

CCACCCCTGC AGGNTTCAAA GGGCCTGCTT CCCACTCCTT GGCTTTTCCC TCCTCCTGGG AACCATTCTG GGGCAGAGCA
AAGCT

SEQ ID NO:392: (Length of Sequence = 371 Nucleotides)

ACATCCACAC AAGTACAAGA ATACAGAAGC TTCTCTAGTC AGGATGCACT AAGCACCTAA TGAGTAAACA AACTTCAGCA
TATCTTCATT GTTCTCATGG TATTAATTIG AAGATACTTA CCTTCGAACT AAATCTGGTT TTAGAAGAGC TGCTTGTGT
TCAGCTCCAA CTGGTTGGGA TACAGGCTGT AACAGTACA GACATAAAAC TTGCTATGAT AACAGTAAAA TTCAAGCTAA
ATATACAATT TGTTACTATT CAGAAAACAC GATAGTTTTG GTTACCTTGC AAACCTGGTA GGAATATCTA TGTTATTGAA
TGTCGTATC AATCCTATTA TTAACATTAT TACCAAGGT AAATAAAATT T

SEQ ID NO:393: (Length of Sequence = 404 Nucleotides)

CCTTTTAGTA GCTTCTCTGA GGTGAAACCA CTCTTTTTTG ACCATCTAGC GCANTCINTC TTTACATCAA CCATTATTT
CAAGTGTAGT GTGCTTCAGA GTCTGAAAGA GCTATTGCAG AATTGGCTGT TGTTGGCTTTC TATGGACATT CACATGAAAC
CTGTTACAAA CAGTCTCTA GAGACAACCT TGGGTGGATC CATGAACCTCT GTGTCTAAAC TGATCCACTA TGTAGGGTGG
CTATCCACTA CTGCAATGCG CTTGGAGAGC AACAACTCT TCTTGCTGCA CTTTATTTTG GATTTCTATG AGAAGGTGTG
TGACATATAT ATAAATNATA ACCTTCATT AGTGGGTATT GTTCTCTCT GGGGATCCTT CTATTCTGCA CTCCTCAGCC
TGGG

SEQ ID NO:394: (Length of Sequence = 416 Nucleotides)

GCCACACACT GGAGAGGGAG AGCTAGAGAG TGAGACAGCA GGGGAGCTGA GGGTGAATGG CTGCTGTTAG AAGCCCTGGA
GACAGCCTGA GGTGAGAGCC CAGCCCCACT CCTGGCTGTG TGATCTTGAG CAGGGCTGTT AACTTCACTA GGACTTGGTT
TCGGTTTCTC ATAGAGAATA GGTACAGTGT GAATTAAATA TATATAGCTT GAATAAAGTG CCCAGCTTGT GGGTAGCTGC
TGCCATCATC ATCACCATCA CCATCATCAC CATCACCATC ATCATCATCA TCATCATCAT CATCATCATC ATCATCATCA
TCTCAGGCAC AGGGGCTTTA AGGACAACAT GCCAGTTTA AGGANGACA CAACTCTCTT CATTTATAGC GNCCTCCAT
CAGTGAGTAG ACGCTT

SEQ ID NO:395: (Length of Sequence = 315 Nucleotides)

AGAGATCAAA TGCTTTAAAC ATTATGGAAT AGGAGTGTAT GACTGACTAA CATCCAGTAA TCATTAGGGA AAACAAACAT
GAGTGAGGNC AACTGAAATA ATTATGATAC AATTAAAGGT GGTAGGTAC ATTTGTATAG TTCTTTAAAA TATGCATTAT
TCCACATGAT CAGAAATATA AAANGANTIA GACAGATACT GGTAGAGAGA CAATTAATTT AAATTTGTAA CATATTGCTT
GGNGCAAGCA TTCAAGTTGA GTGCTTAATG TGTATCGGTG ACTGCACTGT GCAAATAAAT TTGGGGTTAG TAAGA

SEQ ID NO:396: (Length of Sequence = 409 Nucleotides)

CTCCAGTTCT CAGTTTAGGG TGCTTCTTTC CCGGCAGAG TTTTTCGAGC TCATGAAGGT GGACTGCCTG GAAAGTACTC
TAGAAAAGTC ACTCCAAGCA AAGTTTCTT CAAATCTCAA GGTCTCCATT CTCTTAGACT TCACGCGGGG CTCACGAGGC
CGGAAGAACT CCGCACAAAT GCTGCTCCCA CTCTGCGGA GGTTCOCAGA GCAGGTCCGA GTCTCCCTCT TTCACAGCC
GCACCTCCGT GGGCTGCTTC GGCTCCTCAT CCTGAGCGC TTCAACGAGA CCATCGGCCT CCAGCACATT AAGGTGTACC
TCTTCGACAA CAGCGTATC TTGAGCGGTG CAAACCTGAG TGACTCCTAC TTTNACCAAC CGTCAGACCG NTACGTGTTT
CTGCAAGGA

SEQ ID NO:397: (Length of Sequence = 414 Nucleotides)

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ACAAGCTGTG TGACCATAGG CAAGTTTGAC CTTTCIGAGC TGCCATTTTC TCATGGTAAA AGAGAGATAC TAGAGGAACC
TGCTCACAG GATTGTCATG GAGAATAGAG GAGATGATAC AAGTGAAGCA CTAGGCAGCA CCATACTTGG AACTAAGGGA
AAGCCCCGAG TCAATGTTCA GTATTGTTAC ACTTGCCAGA TTGTGAAAGA GCGCAGGCAA CCCTTGAGTT GAGCTCAACG
CTGGAGCCAA GATCAATGAC AGAAGGATTT TGTTTTGAAA CAGCAACTAA TGACCAGAGA GAGGAAATGG GTCATGAAGC
TCCATGGTGC CTTTCATGAA AATGAAATGT AAGGGCGTGA TTCAGGAAAA AGGGACCACG ATCAATACCA GCAGACTCTT
CCCTATGCAC TGGG

SEQ ID NO:398: (Length of Sequence = 400 Nucleotides)

CATCAAGCTG GGAATGCCCT AAAGTGGGGG CGTGAGGAAG AGAAGGGGTG ATACCTAGAG GCTGGGGTAT CTCTGTCCCA
AGGAGACAAA CTATAACAAG ACCCAGCAAC TGAAGGGTTA ACACCTAGCA CAGACGTATA CCTCCAGGT CCTAGCTGCA
TTTCTAATTC TGCTTCATCT ATGCTTGAGC ACTACTTGTT GTTAAATATA CTTAATATCA CTCTTAGCTA ATTTCCCTCA
TGTAGATTTT TATTTATTTT TGAGGGCAAC CCAACTTCCA GGCTCTTGA AGGAAATAGA CTGCAGCCCC TAAGTGTGAT
CAATACTTAA TTATAACAAT AATCACTAAT AATAACTTGT GCTGCTTCAT TGTAATAAA ATGTACACTT TTACATTTT

SEQ ID NO:399: (Length of Sequence = 324 Nucleotides)

AAATATTTAC AATTTTACAC CTTCAGGAAG GCTCCAAAT ATAAACACTG TACCTCTCCC TAGAGAAAAA AAAATTATTC
TTCTCTTCAA AAACAGGAAT ACATTCATTT TTTCTCACTG TGTGAATCAA GTAATTATAC AAATAAACAT CTGAAACATT
TTCTTTTTTA ATATATTTAT ATAATATATA TTNTAACAG CTTTACAAAT AAAGGCAACG GTCTTTTCT AATTTTCATG
CCTCTCAACA GAAGGGTACA TGATGCTCCC TGAATTCCAG GGNATTTTT TNCTCTCTAT GGTACTTGT ATTTCACTT
ACTT

SEQ ID NO:400: (Length of Sequence = 388 Nucleotides)

ATTAAATCTG AGTTTGTGTT GAGCATCTTT CAACATGTAC CATATTTATG ACAATTCTCT TCCATAGGAT CTATCTGTNC
TGCAACAAGT ATTGATCTTA CAGTAAATTT TTTACAAAT TCATTAGATT CTATGCTCT TTTCTGGTA GGAATTTTTG
TGCAGGTAGC TATCTCTTGC CCTAGATTAT TCTCCTTGTT TAGCTGCTGA TTCTTAACT GGCTCTAGA TTTCCAGATT
TCTTCGGTA CAGACTTTCT CTTTGCAAGT NCTTCCATCT CTAATCTTTG AGATTAACT TCTTTTGAAA TGCTCTGCTG
CTCTACTCTT GTATGTCTTG GNCCACGTT CAAGCTTCCC ATCTAGCAAA ACCAGGGTTT CTAATATT

SEQ ID NO:401: (Length of Sequence = 339 Nucleotides)

GTTTATTGCT CAAAACAAG AATTCAGAAG CAAAGGTGGA GAGACTGTGG GTTGGGGAGA TGGCAGGAAG GGGCAAGGC
CTTGTCCTCAG CTCTCCCTT TGCTCTCTT CTGACCTCC TGGCCGAGT CAGGCCTAGG GCCAGGGCAT CTGGGAGGGG
GGCACCTTCG TGGCCAAGG AACAGTAGAG CTATCGGGG CAGTCTTGA GGGGTGCCCT GGGCAGGAGG GGCTGCAAGA
TTTNCAGGA GGCAGAGTTC CCTCCCGA ATCCAAAAGC CGGTAGGGCG GGGGGCAAG CCCCTCGTTT GGCAACTNAG
AAGAGGCGGC TTTTGGGCG

SEQ ID NO:402: (Length of Sequence = 400 Nucleotides)

TGTCCAGTGT ATGAGGACGT CCCAGCGAGA AATGAAAGT TCTATGTTA TGAAAATAAA AAGGAAGCAT TGCAAGCTGT
CAAGATGATC AAAGGGTCCC GATTTAAAGC TTTTCTACC AGAGAAGACG CTGAGAAATT TGCTAGAGGA ATTTGTGATT
ATTTCCCTTC TCCAAGCAA ACGTCTTAC CACTGTCTCC TATGAAACA GCTCCACTCT TTAGCAATGA CAGGTTGAAA
GATGGTTTGT GCTTGTCGA ATCAGAAACA GTCAACAAAG AGCGAGCGAA CAGTTACAA AATCCCGCA CGCAGGACCT
CACCGCCAAG CTTTCGGAAA AGCTGTGAG GAAAGGGAGG AGGAGGACAN CTTTCTGAC CTTATCTGGG AGCAACCCCC

SEQ ID NO:403: (Length of Sequence = 416 Nucleotides)

AGTTGACTGC TCTGATATGG AGAGACCTGT TAGTCTTGTA TATAGTCCCC AGCCGGAAAA AGCATCTCTT GAAGGTTAGG
GCATTTTGTC AGGAGAGCTC TAGGGCTATA TCAGTCTGGA GGTATGATCT CTGATAAAGA TCATAATTCT CATCTCAGTA
ATCTTCTTTA GAACAAAACA TTCTTCATIG TAAGCTTCTC ATTAAGTAA GGCCACCTGA TCTGAGATTT TGGCTCTTAG
AATACTCTTT NCIGTGTCTC AATCCTCATA TGGCTTACCT CTGAAATATA GAATATATTT CCTTGTGTAG CCTGGTAGAG
TTGGGTTTGG TTTTGTCTTT CAAACAGTAA CTTTTATTTG ATTGTAAAAC TTCCAGATTT CTGAGATGCC GCCTTACCAG
TCCTAAGGTT GATTTT

SEQ ID NO:404: (Length of Sequence = 368 Nucleotides)

CCTCTNACTC ATTGTGATGA GTAGGGCGGA GGGCTTCACT GCCTCANTTT CCCCAACTTT GGACCTTAAA TCCTCTCCTG
ATGCCTCTCA GCCCAGCCAG GAAGGAGAGC TAAGACCAAG AGGGATTTAA CAGATGCAGG ACACACAGCC TTGTCTCAG
ACCCCCAAG TCTGAGAGAA GCAAAACACT CACCTTGAGA GCCTCGGAC TTGGAGGTGA GGTGCAGAAC CCAGGCTGGG
TGTTGTCTGA GGGGTGGTGG GGGTGGTGG TGCTGGGTGG CTGGCTGGG AATACCTTTC TTAAGCTAAG GCTGGGGCTT
AGGGGAGGGC CAGAGGAAGG GTAAATAGTT TGCCTGGGGG GTGTCTGG

SEQ ID NO:405: (Length of Sequence = 395 Nucleotides)

GACAGGTCTT CACTCTTACC ACAAAGCTCA AGTCAGCTTG GCCTCTCAAG TGGAGAGATA ATCGTTCTAT AGCAAGAAGT
ACAAAGATTC TCTGCAGACA AAACCAGCTA GCCAAGGTTT CACAACATGT GTACACGTAT AAGTCTGTG GATCAGAAGA
AATATGTACC CGGAATCAG ATGTAGCCAG CCCACATACT AACAAACATC AAAGCAAGCC TAGTCAGATT GAGTCCCAT
TGAACAACTT TTATAAAGT TTCTTCATGT TATTTACAAT TCAAAGTAAA TTACTTTTAT AAGCAGCTAG GGAATTTCTT
TATTTAGTAA TGTCTAACA TAAAGTTTC ACATAACTGG CTTCTGTCCA AACCATGGAT ACTTGAGCTT TGTGG

SEQ ID NO:406: (Length of Sequence = 358 Nucleotides)

GATACCTTAA TCTAAATTTT ATCTTAATTT TTATTTTAT TTCTTGTCT AAATTTTAT CTAAAATTTT TNCITAGCTCT
TTATTACACC AAGACAGCTT CACATTTTAA TTATATATT GTACATCTCA GTTAAGGNAT TACCGTATAT AAGCTAGTGT
CATAACTTAA GTAGCCACAT TCATTCAGTA TGTTTTATGT TTCTCTCTG ACTGGATCTC TGATACATTC TTCTCTGTTC
TAGCTGCTTT TATGCAAAAG GGCATTATAT GTTTGTCAAT CAACCAGGCT TCTGTGACTG TTAGAAGGA ATTATGTAAA
TATATAATCC NGTGGCTGT TTCCTTTGG CCATGTTT

SEQ ID NO:407: (Length of Sequence = 294 Nucleotides)

CTGTGTATAT TTAGTATCTT TNATTAAGAA GACTGGTGA TATTTGCCCT CAGCTAATTT ATAGAAAGGA TGATCATCAA
TGTCTCTAGT TTTCTCTTAA GTGGCTGTG TGTGCAGGTA CATATAAAAA TNCAACTATA CAAATAGCTG GACAGTTGAG
TCTCAACTAT GAAATCTTT TCTGGGATCA AGATCTAAGA AGTTGGTGTG TGTATGAGTG CAACCCATCA TTCTATCCCC
TAAAAATCTG GGGTTTCTCA GCCCAAACAT TCNCACTAGT AAAGTCAAGT TTCA

SEQ ID NO:408: (Length of Sequence = 367 Nucleotides)

GGCAAGGAAA GAGAGCTTTA AATTGAAAGG TTAATTTCTT AAGAGGAACC TGGGCTGAAT GACTGCAGTG TTATACCTTC
CAATCTTTC AGGTGGGCAT GGAACACTGC TTGTATCACT CTGTGCACGG TATAAATCCA TATATCCACA AAAACACACA
TCCATCCATC AACATATACA TGGTTTGGGA TGAGCAGGTC AATAGTTTTG AGAGGGAGTT TGTCCTTTT TTTTCTCAT
TATACTCTTA AATTGTTGTC AGTTATCAAA CAAACAAACA GANAATTTGT TTGGAAAAAC CTTCATACG CCTTTTCTTA
TCAAGTGCTT TAAATATAG NCTAAATACA CACAGGCTTG AGGCAGA

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SEQ ID NO:409: (Length of Sequence = 233 Nucleotides)

AAGAGACAGG GNCATATTCT GTCAACCTGG CTGGACTGCA ATGGTGTGAT CACAACCTCAC TGCAGCCTTG AACTCCTGGA
CTCAAGCANT CCTNCCACCC CAGCCTCCTG AGCAGTTAGG ACTACAGATG GGTGCCACCA TGCCCAGCTA ATTTCTAAAT
TTTTTTTAGA GACAGGGTCT TGCTATATTA CCCAGGCTGG TCTCAAATC CCTGGGCTCA AGTGATCCTC CTT

SEQ ID NO:410: (Length of Sequence = 295 Nucleotides)

GACAGGGGGT GGGGAATTCT ACTCCATGGT ATCTTCAGAG CTAGGATAAT GCTCCTTATG CAATCCCACT GCATATGACC
ATGGCAGTAG AACAGTTCA ATTACTACAC TGGATGCGTT AAGTGTGCTT TCCTAGCAGA AAGCACCAGG GTGGAGTCAA
CAGTTACAT GCTAATACTT GGAAGTATTT CTAGAAGGGG GTGCTCAATA GAGGGCAGAC ATGATGCAAG NNCTTCATAC
TAGAAAGGTG TCCTGTGTGT GCATGCACAG CTGGATGGGG GCACACAGGA GCAAG

SEQ ID NO:411: (Length of Sequence = 304 Nucleotides)

AATAAAAAGA CCATTAACCTT AAAGTGGTGT TAAATGCTTT GTAAAGCTGA GATCTAAATG GGGACAAGGC AGGTGGAGGG
GAGGCCAGTG TACATGTAAA TGCCACAGC CCAGCATTTG GTTTCCTCC CAAGNCCCA GCACCAACCT CTGAGCCCAA
GACCTTGCCT GAAAACAAGC AGATACCGAT TGNITCATCC TATTTATGGA CATGTAGGTC TAGITGCATT TTCACINGGG
GGAGGGGGGA AGGTGAATTA TGGTAACTTT TAATGATCTA TTCAGGCAGT AGAGCTCTTA AGGG

SEQ ID NO:412: (Length of Sequence = 250 Nucleotides)

CAGGTGCGCA CTATCACGCC CGGATAATTT TTTTGTGTTT TAGTAGAGAC GGGGTTTCAA CATGCTGCTC AGGCTGGTCT
CAACTACCGA CCTCGTGATC CGTCCACCGC GGCTCCCAA AGTGTGCGGA TCACAGGCGT GAGCACCNT CTGGENCACA
GGTNGAGACC CTTCTATAT AAGAAAGAGA AAAATGTCTC TNANTCACA GAGAATGCTA ACAACGGGGG AAAGCACAGA
CACAAACCTG

SEQ ID NO:413: (Length of Sequence = 337 Nucleotides)

GTACTGGGAC AAGGAAGGC AATCACAAC AACTGCCCTC AGGAAGAACT CAGTCCCTGA CTGTAGTGTG TCTTCGGGGG
AACCAATGCC ACCNCTCC ATCCCCAGA CGGGCGAGGG GCTGCACCCT TAAAGCAGGC CATTGGGCCT TCCGGGCTCC
AGGGCCAGCC CACCCGNTC CCGCTGGTGG ATCTTCTGGT GCTGCAGGAG GTGCTGCTTC TGGACAAAGC TCTMTTACA
CTCAGTGCAG CTGTAGGGCC GNTCACCCTG NTGGATGCGC TGGTNCNGA CCAAGTCAGA TGGGTGACTG AAGCTCTTGC
CACAAGTAAC CACAGAT

SEQ ID NO:414: (Length of Sequence = 304 Nucleotides)

GGTTTAAGAA CTGCGTTTGT GNGCCCAATC TTTGGTGAAA AATATTTTGT GGTATCTTT GAAAAAATC CTTTCAAGG
CAGACAGCAT TTTAATGCTT TGTCGTGTTT TCCTGTGTTG TCAGCTCTGN CACCAGCCTG AAAGATTTAA AAATNCAAAT
TAATGGAGGN TTATTTGTCC TMTACTCAGG TCACATTTCT GGGTTTTAAT GAAGNGACAG ATGCTGCTCA TATACAGGAT
TTAGTGCAG TTTCTTTGGA ACTTCCAGAT ATTCTGAATT CACTCCACTT CTGCAGTCTA AATG

SEQ ID NO:415: (Length of Sequence = 315 Nucleotides)

CGTTGTGGAG TGGGTGTCTT TGGATAGAAG GAGTGAGGAA CTGGGGGAGG AAGGCCTGGG GGATCCCCTG GCGGGGCTAC
TTCTGGGCC CGGNATGGAC ACCTGGNAGC TGCTGCGNIT GTTGGGGTCC TGGCAGGGGT GTGGTGTGGC CCTCACCCT
CTGNTCACCT GCTCCTTCT NACAGTGCCT GGAGAAGTTC CCTGTNATCC AGCACTTTCA AAGTTCGNA GCCTNCTGCC
CATCCATCCT GTCACGTGG GCTAGGAGGG GNCAAGCCGA AGAGCCACCC ANGNACANT TCCTGTGCTT GCCTT

177

SEQ ID NO:416: (Length of Sequence = 343 Nucleotides)

GTATTTCAG TGTTTTATTT GCTTTCTGTG GTGTCAAATT TGGGGTCTCC TAGAGCCCAG CCCAGGCAG AATCCGGCAT
 ATCCCTCTCC GCCTGGGGGG CCCGGGACAC AGGAGTTTCA GAAAAGGCAC TGGCAAAAGT NCTAGGGCGG GGGTCAGGGA
 GAAGCCACAC TGAGCCTGGA GGGACCGGGC CCTCCTTCGG CGGCAGAAAA CACAGTCACC TTTNGCAGGG AAGGGTTTTT
 NCCTAGAAAG AAATTTAAGA CAAGATAAAA ACCTGAGATG TTAGAGGAGC CCCCAGAAC AAGCCGGTGC TNCCTGGGC
 AANCAGAGAG TGAACCTCGC TTT

SEQ ID NO:417: (Length of Sequence = 202 Nucleotides)

TATTTCTCTG TGAAGGGG GAAAATAAAA GGAATAAAT AAAAACGGCA CAGTTGACAC AAAAAAAA ACCAATGATG
 GGGAGGACGG GAGGTGGAGA AGTAAATGGG GGAGGGGNTC CCATTACAGC AGCAGGATCC AGTNACCCGG GATGCTCACA
 TCINTCCCTN ACGTGGGCGG TGTAGCCCT TCTCCCAAG GT

SEQ ID NO:418: (Length of Sequence = 299 Nucleotides)

CACCACTGG CTGCAGAGCT GTCTTCAGGA TCATAGGCCA CTGCCAGAGT CTTGGAGAGA GGGAGAGATG GAGAGGAAGG
 GAGTGAGCTT CGTGGTCTG ATTCTGGCT CAACGACGCA GGAACCTCAG GTTCAAAAGC AGCTGACAAG AGCCAGAGA
 CGCTCTCTT GCGTCCGGC AGAGCCTTCT GGTGGCCGA CACCAGGCA NGGAGGGAAG GCCCTGAAAT CCGTTTTTN
 TGGCAAGATT NGTTCCAAG AGGAGATAAT GGCTCAATT TGTCTTCCA AGTTGATCA

SEQ ID NO:419: (Length of Sequence = 223 Nucleotides)

ATTGTGGGA AGGTAACATT TTTCCATGGT TTTNATTTN CCCAAAAGTA TTTATGTATT GATTTATTTG GNTCTGACTC
 AGGCGACGTA CTGTAAGACG ATATTACTTT AATCATCTC ACATCAGTAT TTATGGAATA GCCACAGGIG CCTCATCCTT
 TAGTAGGAGT TAATTATACA TTTNCTGGC GAGTAAACAT NTCCGAATGG TATGTATGTA TTT

SEQ ID NO:420: (Length of Sequence = 406 Nucleotides)

TTTAAATATT AAGTTAAGTA TATAACTTGC CCTATGCCAT ATTGCTTTAA TCAGGGGACT GAGCATCACA TTTAGATTTG
 ATGAGTTGG GAAAAGTTCT CAAACATCCA GACCCATGGA CCTTAAGAAT TACTGCAGAA ATCTCCTTCA ATATAGTCAT
 AGGGAGCATT AATGCTTTTG TGGTACTAAA CATATTTTGG AGCTTAGATA CAAATCCTTC TTGTCTGAA CTGATAGGGT
 AGGAATTGTT TAGGTGCTTC AAATCCAGAT CTTTCAGGG TTGCCACCTA AACTCATCTT TATGAGTAAC TCTAGATAAT
 AATACACTTT GGTATCTTCC AAAGTGCTTA TCTAGGCATG GAAAAGTTCA GTAATTATCA TGAGGNCCTG TTTTLAGGTT
 AGGTCC

SEQ ID NO:421: (Length of Sequence = 281 Nucleotides)

ATCCAGATTA CTGACTGTGA CACAATGGAC CATATGINCT GTCCAAAATA CACCTACATT AACTGTGTG GAACANGAAC
 CTGGGCTTTG CAAAAAGAA TTTATGATTA AAATGTAACC CCCCCAAA AAAAATGAAG CTTAGAATTA AAGGTAGCCT
 TTTACCCAGA TTGTTACCA GNTGTAAAA TTCTAATATG GGTCAATTAAC TGTTCAAAA TAATTCATAT TTGNCCTTAT
 GGTTTAAGG CTCCAGATTG AAAAGGTGCT CTGAACCTCT G

SEQ ID NO:422: (Length of Sequence = 220 Nucleotides)

TTTGTATTT TAATAGAGAC GGGGTTTGC CATGTTGGCC AGGCTGGTT TGAACCTCTG ACTTCAGGTG ATCTGCCTGC
 CTGGTCTCC CAAAGTGCTG GGATTACAGG CTTTAGCACT GTNACTGTCT GCCTGGCTGG CTGGCTGGCT GGCTTCTTT
 CTTCTNTTT TCTNTCTCT TCTCTCTCT TCTTCTTTC TTTCTTCTT CTTTCTTCC

SEQ ID NO:423: (Length of Sequence = 391 Nucleotides)

CTGTCTCTTA TCTGGGCAAG CTTTAGACAT ACTAGCTTGG TTGGAACCTG ATATTAAAAG CCTAAAACAT GTAACCTTNC
 TIATCAGGTT ACTATCATGG GGAACATAAG ATTCTGGTT TTTTGTATGT NCCATAACTA TACTTTAGTA AGCCCTGATA
 TACGGTGTTA ATTTTCCINC AGTGAAGGAA ACATGAAGAT ATATTTATGT GCACACATAC ATATATATGT ATATATAACG
 TATATTCAA CATGCACTCA GAGGAAGTTA GGGAGAGAAG TTCTAGCTA AACATGATCT TGTGAAATTC TTCCATATGT
 GGAAAAGTCG TCAGTTCATC TGACATAGAG CAATACCATA CATATATACA CACAGGGTGC TATGGTATAC A

SEQ ID NO:424: (Length of Sequence = 379 Nucleotides)

TGGGAGCCT GAGGCATGAG AATCGCTGA GCCCTGGNGG TGGAGGTTC AGTGAGCTGA GACCCCGTCA CTGAACTCCA
 GCGTGGGTGA CAGAGCAAGA CTCTGTATCA AAAAAACAA CAAACANACA AACAAAAAG CCTATTATAA AACAAATAGGA
 AATGCTGAAG TCTAGTGCAC CAAGACATAC TGAATTTCAA ACTAAATAAA TTAATAATTAT CATGTACATT CCACTACATG
 TCAAAACAGG AAAANCCATA GTATTATAGT TGATATGAAA TGANGATTAC ATACANCAGT AATACAGAGN AAACATGAAG
 CTGCTTATAT TTATTTGGGN ATAAGGNCAN CAGGGGCCAA TGATTTTCAC TGCAGATGT

SEQ ID NO:425: (Length of Sequence = 448 Nucleotides)

TCCACAGGGC GGCTGGGGT CTGAGATGG GCGCTGGGCC CACGGGACGC AGATGGGGCC ACGCTCTGCC CGTGGCTGGC
 CCACGTTCTT GGTCTGCACT GCTGCTCCTT CCCCAGCAC CCTGGGGCAC AGAGGGCAGG GTCACAGCTG GGAAGAGGTG
 GGGGGTAGAA ACCAAGGCTG GCAGAAGTNT AGCCGGGCTC CCTGATAAAT GCTGGAGGAC CCCAGGGCAC CTGCACCTAC
 TGTACCTCT CTGAGAGCAT TTGTATGATC TCATGTCTCA GCTCTNNGAG GCTGGAGGTC CCAGAAAACC AAGGTATGGG
 TAAGATTGAG TCTCTGGGTG AGTACCCAGT TNCCTGGCTC TAGATGGGCG CTTTCTCCTT GTGTGCTCT AAATGATTGG
 ATGAGGCCAG GGTGCTCTCT TGGAGTCCTT TCTGTAAGGG CAACTGAT

SEQ ID NO:426: (Length of Sequence = 417 Nucleotides)

GCGTGGNTCA TCGCTGTCTT TTCTCTCTTG TCAGAGTCAG TGACACTGAC ATTAAGGTCA TCGAATATCA ACCAGGTCTT
 GAGGACCTTG GTGTGTTTCC TCCTCTCTTA GTCTCCAGAC CCCAGCCTGT TCATTCTCTGA GCTTCTCTG GCACCCCTTC
 CTTGGGGCCA AGCCAAGTAA GAAATCAGCA GGCCCAAGGT GTGCTTGGG AGGCCGGGGC AGTGCCAGGG GCAGTCTCTA
 TACCATCTTC CCACTGGCTT CCTCTCTGCC TGCTCTTAGC CGCCACACAT ATCTCAGCTG TCGAATCCGA TTAGGGNTTC
 TGNCCAGTGA GCCAGACAAG GAGGCCACTN GGCAGGGGAG AGAGAGACAA GGACGCCAAG CAGGGATTGG CAGAAGGAAG
 GTGGAGACAT GGCTCAA

SEQ ID NO:427: (Length of Sequence = 317 Nucleotides)

AACCTGTCT CTACTAAAA TACAAAAAT TAGCTGGGCG TGGTGGTGG CGCTGTAGT CCCAGCTACT CGGGAGGCTG
 AGGCAGGAGA ATGGTGTGAA CCCAGGAGGC GGANTTGACG TGAGCCGAGA TAGTGCTCT GCACTCCAGC CTGGGTGACA
 GAGCGAGACT CGTCTCAA AAAAAAGGCT GATAATGATA AACAGTGAGC ACTCCGGTCC TTTTCTTAC GTTTCTCTT
 TTTCTCTCT CTCCACCCA CAAGTTTTCG TTTTAAACCA AGGTGTCTCT GCTTGATGGA AATTACATG CTAGTCT

SEQ ID NO:428: (Length of Sequence = 296 Nucleotides)

GTAATTACAG TATTINCAAG TAGAGACGGG TTTCTCCATG TTGGTCAGGC TGGTCTCGAA CTCTGACCT CGGGTGATCC
 GCCTGCCTCG GCGTCCCAA GTACTGGGAT TACAGGTATG AGCCACCGTG CCCAGCCGGT TTTTTTTTT TTTTGTAT
 AGCAATGGAA GAATGGCTC GTACACACGN TAGAGTGGA AGTCCAGGC ACCAAGGNTT CCCACCTAG AAGCAAGCTC
 AGGGCTTCT CTTCATCTT CCAGGGAGAG CACTGAGAGA TGATGGGGG TTGGCA

SEQ ID NO:429: (Length of Sequence = 422 Nucleotides)

GAGGGTTGGA GACAGGAGAC AGTGGGGTGG GAAATCCAAA TCTCAACTGC TTTTGTACTG TCTCCTGCTC COGAGTGCCC
 CANAGCCCAT GCAGACCCTC TGCTGTCTAT GATATCCTGT TCAGCCCTCA ACTTTCCTTA CCATCCCTGC AACTGGGGTT
 CACTGTGAGC CAAACCAGTT TGCTTCTTGT TTTCTAAAAG CAGGCAGCCC TTCAGGACTG TATCATTCAA GGCATTTCCC
 ACCTCINTTC TCCACTCATA TCCCTTCCCA AACTGCCCTT CCTCATTTCT CCGTCTCCAG GGAGAGGGAC TNCAGGCTAC
 CACAGNCAA AATGGTGGTC TTCAGTCCTA CGTAAGNCAA NCTGTGTGAG TGIGTAAGGA CTNAGGGTTG CTCACAAGGG
 GACACACAGA NGTGGATGCC AG

SEQ ID NO:430: (Length of Sequence = 332 Nucleotides)

CGCGATCAGC ACCCGGGACA GCGCCACCGC CCACGTGCAG GGGNTGGGGT CCGGGCGGGG CTNGCGCCTC GGCGTCTCCC
 GGNAGTINTCC CGTCCAGCCG TCGAGCAGGG TGCTTGANIN TINTGTCAGA AAAGACTCTA GGACCCCGCC ACCATGTTC
 CGGAGCCCCC AACCCCGGGG CCTCCATCGC CCGANAOGCC TCCCGACTCC AGTCGCATCA GCCACGGCCC AGTGCCCCC
 TGGGCCCTGG NCACCATCGT GCTGGTCINA GGCTCCINA TCTTCAGCTG CTGTTTCTGT CTCTACCGGA AGAGCTGTGG
 GAGGCGGACA GG

SEQ ID NO:431: (Length of Sequence = 413 Nucleotides)

TGTCATTATT TAAGATGGGG GACATCCAAG CACCTGGAAC AAAAAGGACA CTAAGAATGG GAGAAGAATA CACAAAGGGA
 GGTAGTACAG GGCCAATAAC AGATTTTGG AATTTTCAA ATTTCTCTT GAAGTAATTT TACAGTCAGT AAATGGAAGT
 GGAAAGAGG AATAGAAGAG CATTTTCATTG ATTTTTTTTT TCTCTGTAC TTACACATCT CATGACCTCA TGTTCOCAGA
 ACTTAACACT TAGTTGGGTT CTAGTAGATA TTTTGGGTTG AAAAGATGTT TGCTGTTTTG CATTTTGTTC TGTTTTGTG
 GCTAGCCTGT GAATCTAGCA TTGTACGTGA GAAAGTGCAT TTCAGATTGA AAGCAACTGG GTTTTGGAAA TGAACITCAA
 TAACATATCC CAG

SEQ ID NO:432: (Length of Sequence = 292 Nucleotides)

TTACCGTGT TAGCCAGGAC GGTCTCGATC TCCTGACCTT GTGATCTGCC CACCTCGGCC TCCCAAAGTG CTGGTATTAC
 AGGCGTGAGC ACOGCGCCCG GCCACCATTC ACTAATTTTC AAGAAATGTG GAAGTGTCT ATATTINCTT CCCACTCCAT
 AGCTCCAACA TTGTGGCTA TTATGAATTT GGCTATTAAAG TGATGCCAAC AATATTTAAT GAAAAAAGA TATAGCAGTA
 TAGTTGAAGG AGGAAGCTGA AAGAAAACGG TCCATCTGTG AGGAAAAGGC CC

SEQ ID NO:433: (Length of Sequence = 335 Nucleotides)

TTTTTTTCTC AGCAGAGGAT TTTATTGGTG GTCACCTGTG GCACAGGTTA GAGGAGCCGA AGTGCTGINT TTGTGGTGGG
 GGGGGGACCA CAAACCCCGG CCTGCCCCTC TTGCTTACAT AGGCTTCCCG CTTAGAAGCG CANTATGAAC ATGCCGCTAC
 GGATCCGGTT GTAGTCTGGG AGCTGCTCAA TGGGGCCATA TCCAGCCACT GCTGGGGCAC TGGTCATAGA TGTACTINGA
 GCAGATCTCA CGTACCACAC TGGCATCCAC CTCCGCAAAT CGGCTTTCC CATTCAGCCA GGGGGGNATG CGGGNGGCC
 ATAGGTCAGG AGGCT

SEQ ID NO:434: (Length of Sequence = 390 Nucleotides)

GTGCTGACT GCTGATGGA GATGACGTGT ACCCATCCTC TAGACAGTCT GTGCTTTTCC TGTCTTTGGA GCTTCCAGTT
 CCACCCCAT CAGTTTTTTT CTGACCACTC CATCTTGCCCT TATTTCTCTC TCTTCTCTT TGACTGGAAG AGTACTCATC
 TTTTCTAACA TCTTTTCATA AACTGTTTTG ATTTCACTTA TATTGATTTT NAAGTATAA TGTGCTGGTG TTCTATTTC
 TCAGTTAGAT CAGAAGGCC CTAAAGACAG GGCTCCATTG GTGTTAACT GCCATCTTCA AGGTCTGGGA CTTGATTTCN

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CTTTTTTINAC CTNCACAACA AGGCACTCCT CTTCACCCCA GTCGGAATTT CAGTGCCTGT GGGTCAAAGT

SEQ ID NO:435: (Length of Sequence = 427 Nucleotides)

TCACTAAACA GTAGATTTAT TTTATGTAGA TTGTTTTTC TATAAAAATA TATTTATGTG TTCACAGGAA AAAAGTTGAG
TTGGTATGTG GGGGTGACTT TCAGATACAT AATTAGTTAA AGGTTTGCTT ATGAAGTTAG AAGGCATCIT AGCTTTTATC
ATTTTCAAAT TTTTCTTCAT AAAAAAGAAC ACCCTGTGAC AAAGATAAGG TAACTGAGAT TATTATTAGC ACTTTAGAGT
TGAGAGAGTT TGAAATAAAA AGGTTAAGCA ACCTGCCTAA TGTTTATGTA CAAAATCAGT GCTGGAGCCA GGAAGAGAAT
TTGGATTTTC CCAACCTTG GACAGTTCTC TAGGGACTCA TGCCCAACCA CCATTCTTGA GACTATATAC AATCAATTAC
ATTAAATGA TATTGACAGT AGACTAG

SEQ ID NO:436: (Length of Sequence = 249 Nucleotides)

TCAAATAACC AGGAGGGGGA CAGAAGATGA TGGCAAGGCA GACTGGGCAG TGTTTINTAG ACACAGAACA AAGAATCAGA
ATTTGAAAAA AGANGAAAAA CAAATCTNCG CAGCTGCAAC TTTAAAGTAT CACCTTTATA GATGGCAGGG ATTTCCATTA
TGCAAATGGA ATCTAAGATT TCAATGTGNA ATCTTAGAAT GCAGTTTTAC CACTTGCACT CINGTATTTG TGGTGGCCAT
GTGGTGAGT

SEQ ID NO:437: (Length of Sequence = 404 Nucleotides)

GTCATTCACC CTAATCCCTC TTCACCTTC ACAGAACTTT CACACTCCAA TGTACTTGCT GTTGTAGAT GTCCTATAA
ACAGAAAGCT CTGGGAGACA GGTGTCTTGT TATTCTTGCT CTCGTGATA TCTCTGGGC TATCACAAGT ACTCAAAGCA
TAGAAGTTCA ATAAATATGT GTTCAATGTA AGAAATGATC AGTGATTCTC AAGCTGCAGT GCGGTCAGGA TAACCTAGAC
AGCCTGTTAG CACGGNTCAC TGNNNCCAC CCCACAGTT TCAGGTCTGG TCTGGGNTGG GGGCCAATAA TCTGTATTCC
TAAAGTCCC CAAGCAATGC TGGTGCTGTT CGTCCAGGGA CCATGCTTAA AGAACCACCC GGAATAGGAC TGGTGGACAA
AAGG

SEQ ID NO:438: (Length of Sequence = 337 Nucleotides)

CTGCAACTTA TACCTTCCAT TTACTAAAGT CCAGTATGT GTCAAAGTAG TTTTCATTCC TCACAGCCAT GTTATGAGCT
AAATATCACT AACTTTCCCT TTCAAAGGTG AAATAAAGTG AGACTCTCGA AGATTAACTT GCGCAAGGTC ACCTAGCTCG
TTAGGAGGCA CAGGTGGGAC TTGAACCCAG TTCTTTCTGA ATTCAAACC TCCAAATGT CTGTACATC AAGCTGCTTC
AATGAGATGC TAGAAATCA GGACAGTGAG CAAGCTGGAG ATAANGGAAG ATATGGAGGA ACACGGGAAG TGTGATCCTC
ACACACATAC CCTGCAG

SEQ ID NO:439: (Length of Sequence = 380 Nucleotides)

CATCGTGTAT GAAGGTAGCC ATTTTGTAACA TGTACCTTG TTA AAAACAA AAGAGCAGCA ACATGTTTAG AGTGGTGCT
ATAGATAGAA CACTGCTGTT ATGTTTAAGG AAAATTGGGG CGGGGGCAGA AAAGATCAAT ATGACTAGTT AGAAGACTAT
TAAGGAGAAC TTTGTACATG AATTATGGAT GTAAGAATTA GAAAAAATAA GATGATCATG TTCAGAATTT TAGCTTTTTT
ACAATTGTAG TGGAAAAGAA AACTCCTAGA GTAATGAATC AATGGTATCC TACAAAAGA GAGGTGCCAA AAATACCATG
AAATATTATA TTA AAAAATT CACACGNATA GGTAGTTATA ATATGTAAAG GCCAGACTTC

SEQ ID NO:440: (Length of Sequence = 335 Nucleotides)

CCCTGAGCTT TTATTGACCA GTGGACTGTG ACTTTTGATG TAATTTTATT TTTGAGAGAG GGTCTTGCTC TGTCACCCAG
GCTGGAGTGC AATGGGGTGA TCTTGGCTCA CTGCAACCTC CGCCTCACGG GCTCCAGTGA TTCTCTGCC TCAGCCTCCC
GAGTAGCTGG GACTACAGGT GCACACCACC TTGGCTGGCT AGTTTATGTA ATTTTTTGTG TGTCTGTGGA GACAGGGTTT

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CACCATGTTG CCCAGGCTGG TCTCAAACCT CTGAACTCAG GTGATCTACC CGCCTTCCAA AGTACTGGGA TTACAGGCAT
GAGCCACCAT AATAA

SEQ ID NO:441: (Length of Sequence = 356 Nucleotides)

ACTAATGTG TTTCGTCTC AACCTGCATT TCCAGAGGTG CCTGTTGGTC TGTAATTGGT TCTGGCATGT TTATAGGTAT
TACAAAACCA AGTCTTATTT TGCATTTTAC AGGATTTAAG ATGAATAAAG TGATGTGGTT GTGCTAGGTT AGAGTTGTAC
AAATTATACT CCCATCGCGG ATGGTGGCGT CCCAGGCCTA CAACCTGACC TCTGCCCTCA CGCCCATCGT CAOGCGCTCC
CGGTGCTTCA ACGAGGAGCC CCTGAAGCTG GGGGGCTTTC AGCAGGGNCC CGGCCAACCT CAGTGACGTG GTGCAGCTCA
TCTTTCGGG TGGGACTCCC AATCCCTTT CCCTTT

SEQ ID NO:442: (Length of Sequence = 371 Nucleotides)

GATGATTTTG TATCTTTTTC TATTTATTGA GATAATCAAA TGATTTTGT CCTTCGTCT ATTGATGTGA TGTATTATGA
TCATGTTTAT TGATTTGCAT ATGGTGAGCC ATCCTGTGAT TCCTGGTATA AATGCCACCT GATCATGGTA TATNATCTTT
TINATGTGCT ATTTGATTGG GTTTGCCAGT ATTTTGTGTA GAATTTTTTC ATCTGTGTCT ATTACGGATA TTGGCCTGTA
GTTTTTTTG CTGTGTTCTT CTTTGGTTTT GATATCAGGA TAATGCTAGC TTTGTAGAAT GAGTNAGGGA GGAGTTATCT
ACTCTTCAAT TTTTGGGAAC AGTTGCAGAA CTGTTGTGTG TTTTAGAACA G

SEQ ID NO:443: (Length of Sequence = 329 Nucleotides)

TGAATGCCT TTATTTTTTN ATTTCCCATC CAGAAACCCC AGTGTGATGG TGGAAGCAGC ATGAAAACAA CATCTCCCCA
GGCCTCGCAG TAGAGGCGAA GGAACAGAG CTGCCCATGT GCGTGTCTT AAAGACGCCA CCTCAGGTT GATGTACCT
GTGGGAGACC GGTCCACCT ACAGACACCA GGTGATGGTC CACCAGGCC CAAGCTCCAG CTGTCTGAGT CCCCAGACA
CAGGCTCATT AATAGCTTC GTACAAAAC CCAAGGTGT CCTCCAGCT GGTAAAAAT TGGCAATTT CTACTTGGAG
GTCTGCTGT

SEQ ID NO:444: (Length of Sequence = 358 Nucleotides)

TTTTTTTTTA AGTACATAGG TCTTTATTTA AACACTGATT TTTTTTTTAA ATATATACAC ACAAACCTTA GTTCAGCAAG
GCTTCATGAT ATACACCAAT TCCAAAATAA AACAATCAAA TGGTCCAGGT GTAGAATGCC AGATTCCTTT TATCATCTGC
GAGGAAAAGA GAAGCAGGAT GAGGAAGAGT GAGGGAAGGC GGGGACAGGC TCTGCCCAGA NGAGCTGCG CCTCCTGGCA
CAGCAACGC TCCAGGCCTG GGCCCTGTTC ATATCTGGAG TCGAGGGAG ACTCCCATCG GCCGCTTTGG GACTGAAAG
CCCAAGGCTG TCACCAGGTC CCGGAAGAGA GGGAGGCA

SEQ ID NO:445: (Length of Sequence = 302 Nucleotides)

TCAGAACGGT GAGAAATAAA TTGCTGTTGT TTATAAGTA ACCTGTTTAT GTTATTTTTT TATAGAAGCC TGATCAGAAT
AAGACAATAT TGGATAGAAT ATTCAGGAAT GTCTTGCTC CAATGTTGGC CCCCCTGTAC TGAGCTCTAA TCTACACTCA
CCTAAAAAT TATAAAATCA TAATAAACT GAAAAAGTCA AACTCTCAAT TGCATCCAG CACAAATATC ACAGNTGNIT
ATTTAAAAA TTATGTCAAG GCCCTAAAA GCTAAATCC NCAGNTCTGC TAATATTCT CT

SEQ ID NO:446: (Length of Sequence = 367 Nucleotides)

ATATATATAT ATACACACAC ACACATACAT ACATACATAC ATATACATAA CCTGTTTGG GTAAGGCCTA TTGACAGAAG
CCAGATATCT GGTGGAAGT TAGAAGATGG GCAAGGAATT CTTATCTCAG AGTTTCAACA CTGCGACAAT GTGGAGAGAA
GTCTCCTGGG AAAATGCAGA TGCCCAATAA CTTCCAAAAG AATCAGGGAA GTTGGAGTAT TTTTGAGATT TACAGTGTCT

TTACTTCAGT AAAACAAGCC ACAGCAACAT TATGCTCTGC AGAGTCTTCT GTTCACCTTT GGGATGGAAA AGAGCTGCTT
CTCCTAGGNN GGCAACTAAG GCCCAGGACC AAAACTCCCA TCTCCTA

SEQ ID NO:447: (Length of Sequence = 295 Nucleotides)

CTGC AAAACC TTCAGCATTT AGCTAAAGTT ATTTCAACAAT TCAATGCTTG TCTTGCACTG TCCTGGTTCAT TTAAAACTG
GTATCTCTTC AATAGCAAAT AGTATCATAA CAGACCACTA AATTGGAGG GAAAGTGGTT TCTATTGCAG ATGGATGTAA
TTAAATTTGG TGTAAATCAC AGGTACAGA ATTCTTATCT GGTAAGAATT CTGACITTTT TTTTAAAGAA GAAAAAATAT
ATCCAGATCT GTATCCACAT GCTATTTTAA TGCTCAGGNC AAAAGAAGC CACTA

SEQ ID NO:448: (Length of Sequence = 233 Nucleotides)

CAGAATCAGC CCAAATGCCC ATCAATCAAC TGTGCATAAA GAACTGTGA TATATATATA TCATAGAAGT TCAAACAGAA
AAAATACAAA AAACITAGCA GAGGATTGTA TCCTTTGCCG TTTATTTTGA TGACCATGCC ATCTTCTAAT CCCAGAAAA
AAACTGGAAA ACAGAATAAA TATAATTTC TGATTATNCT TATGTAACAT AAATGGAATA TATATATATA TAT

SEQ ID NO:449: (Length of Sequence = 341 Nucleotides)

ACTTCCTTC TCAGGCTCCT GTACCAATCT TCAATTCCT TGGGATGICC TAGTCTAAAA CATTATTTTC ATTTGAAAGG
AAAAATATCA ATTTCTATCT AAATTGGAGT AAGATTCAAT TCAGATGTGT TTATTTACAA AACATAAGTT TGTTATTTAT
CTGTGTTTAA TTTGATCCNG GAACATTACA TGTAAAGAAC ATTCCATGTA AAGAACCAGG CAACTTGGCC AGGCATGGTG
GCTCACACCT GNTAACCCCA GCACITTTGG GAGGGCCAAG GCAGGTGAAT TGGTTGAGAC CAGGNGGTTT AAGACCCAGC
CTGGGGCAAA TATTGGCGAA A

SEQ ID NO:450: (Length of Sequence = 313 Nucleotides)

TTTTTTTTTT GACACAGTTT CCAGTCCCGG AAACCTTTAG CTAATCTTTA GCATTCCTTC AATGGTGGGA ATGGCAACA
GATCACCATA GTATTAATAC TCTGTGTAAT TTTATCACTA GAATGGTTAA TTCCCATATC ATAGTAGAGC TGTTGCAGAT
ATTTTGAAAT CCCATTATAC TCACTGCCAC TTCAAGATTA CTGTAGTTGT TAGAACAGCT GCTAGATCTT ATTACTTAAT
AAATTAATAA AGTGTGAATA TAACTATATA ACCATTTTNA AAATGTTTTT TGGATAACTT TCAATATAAT TGG

SEQ ID NO:451: (Length of Sequence = 351 Nucleotides)

GGGCGGCTC CTGGGCACCC ACCAGCTCA TTGCGGAGC GGCTCCCTC CTGGGGTTGA GTGTCTGGG CCTGAGTCTG
CAGCCTCAGC CATCTGTTCC CCAACTTGAT CTCCCACTGC TAGTTACAAA CAAATCGCCC GGCTGTGCA AACCTCCTGG
GCTCAGTCCC CAGTCCCGCG GGCATCAAT TCATTCTTTC CTAGCCTGTA AGGTTTCTCC TGAAAAATCT ATTGTTAGTC
TAATATGAAT TTCTAATAT GTGACTTAAG GCTTTTCTCT TGCTGCTTTT AAAATTTTCT CTTTGTCTT TGACTTTGAC
AATTTGGCTA TAATGTATGT TGGAGAGGAC C

SEQ ID NO:452: (Length of Sequence = 363 Nucleotides)

GACAAGGGAG AATTCTTGCT TTACCTATGG ACTGGCTTAA GCGTGTGGC ATCCGAGGAA TGTTTCAAAT GTGTCTGTGT
TTCTCTTTAC ATTCCTTATT GTACCTCATT GTCAATTCA CTTTGTAAA TTCCACCTAA CATTTAATTA TTTTAAATTT
CTCGTCAATG AAGTTATTTT AAGACACTGG AATAAGTGCA GCTTGTTTA TAACAGCATA GGATTATAAA CAACCTAAG
AGTCAGCAGT GACATTGATG GCACATGCAT ACAATGGAAT ATTCTGTAGC TGTTAAATA ATAANGAAGA TCCTGCTCTG
TGTATTTGAT ATGGGAAGGC CCCCCAAGGT CTACAGTTAA GGG

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SEQ ID NO:453: (Length of Sequence = 382 Nucleotides)

ATGAGGGAAA AGATGGTGCC ATTGAAGATA TTATCACAGT GCTGAAGACT GTNCCCTTTA CTGCTCGCAC CGCCAAGCGT
 GGCTCTCGGT TTTNCTGCGA ACCTGTTCTC ACTGAGGAAT ACCATTACTA AACTATTACT CTTTCTCACC TGATGCTCTT
 AAAAGATCTT AGAAACCAAC CATACAGACG AGCCGATGCG GTGAGGAGAA GCGTCAGGCG GCGCTTTGAT GATCAGAACT
 TCGGTTCTGT TAATGGTGCC GAAATAACAA TGTGAACCTG AGACTGGCCT GCAATGAATA CAGGGGTGTG CGTGTTCCAG
 AGGTTTTCTG TTGCGGTCAC CCATGATGGC GGGCCTNCCC ATTTGGGCCA ACTTTTCCTG GG

SEQ ID NO:454: (Length of Sequence = 391 Nucleotides)

CGTCTGCC TGTTGACTGG CTGGAGAAAT AAGTTAGGGA GAATCTAGAT ATGGTTGAAT TGTCAATGCT GCTCAAAATT
 TGTTTCTTTG TGACAACAAC AACACAACA ACAACAACA CAACAACAAC AACAGGTGAA ATTATCTTGA AATACAAAAG
 AACGTCGTIT GGTCTGAGA GTGAAAAAG GAATCCTTAA CAGCTTCAGC TTGCACCAAG AGGATTTTTT TTTATCAGCT
 TCCCTTCATA AGAGAGGATG GAGGATTTTG GAAGAGACAG AACCTGGGAG AAATTTTCAGT GAGCTGCCAC TTTACTGGTTT
 AACCTACTTC CACAGAAGGA ACCTATTATT GTTNTATTG GGAATTCAGT AAATGTGGGC CATGTAAAGG G

SEQ ID NO:455: (Length of Sequence = 282 Nucleotides)

TTGAGTACTC ATTGAGGAC TGCAGTCATA GATTTAAAGT GTAAATCAGT AACTCAGTGG AATTACTTTC TCCATTAAATC
 TTAAATTGCT TCAGGACTGT TTCAGCCTAA GCCAGTAGCT GGGTTTAAAC AAATTTGAAG ATTTTNCIAG GAGAGTTTGG
 CACGAGGAGA GAGGGGCAAA GCGGTGTAAG GCAGTGTITA TAACAGTGGC CCATGGAATT GATCATGGGT AAAGAGAAAA
 CAAGGACATG CGAGGAGGTG ATAAATAGAN CAAACAAAG CA

SEQ ID NO:456: (Length of Sequence = 340 Nucleotides)

CTAACTTATG TTTGAGATCT TCAATGAAAT TAGTTACTAA TATTTNGCTT TATTCTTCTC AAAAGATTIA ACATGATAAT
 TCTGACCTAA TCCAAAAAA AAAAATTCAT GGGCCACTGT TTTGCATGTA ATATGTAAGA NCTCACCTTG ATGTTAAACT
 CCAACCCCTG GCTGAAACAG GTTAATGATC ATTTGNGTIT ATTTATTTCT ATAAATAGTT TGAAGTTGGC CAGGCCTGGT
 GCGGTCTCGC TGTGTCTCCC AGGGTTGGAG TTCGGTGGCG CAAATCTCGG CTTCACTGCA AGCTTCCGCC TCCCCGGGGT
 TCACACCAAT CTCTCTGCCT

SEQ ID NO:457: (Length of Sequence = 338 Nucleotides)

ATGAAAAAGT CTCAGAGAT TATCAGTGGG CGGATGACAT TTGCCCTCTG TTGCTATTCT TTGACATTCA TGAGATTTCG
 CTACAAGGTA CAGCCTCGGA ACTGGCTTCT GTTTGCATGC CACGCAACAA ATGAAGTAGC CCAGCTCATC CAGGGAGGGC
 GGCTTATCAA ACACGAGATG ACTAAAACGG CATCTGCATA ACAATGGAAA AGGAAGAACA AGGTCTTGAA GGGACAGCAT
 TGCCAGCTGC TGTGAGTCA CAGATTTTAT TATAAATAGC CTCCTAAGG AAAATACACT GAATGCTATT TTTTACTNAA
 CCATTCTATT TTTATAGG

SEQ ID NO:458: (Length of Sequence = 370 Nucleotides)

GTTCCTTTT GGAGCTGAAC CAAAGAATGT GCACCCCTT TCTTAGTGC TGTGGTGTCT GCTTATTTTT GTATTGTGTC
 TTTCCATCCA TCTTCTGTGA TCACAAGGCA TTCTTAAGGT TTTCTAGCAC GACTTGCGGA CATCCAGACT CGTGGGGGGC
 CCACCCATGG CTCGGTAAGC CAGCAGCCA GGGCACTGGC ACTACCATGA GGCATGTCAT TAATTGCTGC ATACAGCTGT
 TACCCGACGG CGCACACAAG CAGCAGGTCA ACTGCCAAGG GGGCCCCCAT CACGGTCACC AGGCGTGCCC CAGGTTGCAA
 AGGAGGAAAA ACAAATTC TGGTTTCCGT GTGGGACAGT AAAGCAGATG

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SEQ ID NO:459: (Length of Sequence = 339 Nucleotides)

ATTTTCCTAG AACTGAAATC ATCTACGGT CTCAGAGCTA AACTTCCAAA GCTACAGTCA GCAATTTTTC ATCAGAGCCC
 AAGGGAGAGG GGCCAGGGTA AAAGAGACGA GACTGTAGAG AGGCATAGAG AGACCACTAG GAAGAGGGTG GGAGAGGGCA
 CTTATTTCTC TCTGTCTCT CAGTGGGTTA CAAATCAGAT CTGGTGACAA CACTGAGGGG GCCAGGTCAG GGTATGTNGA
 TGAGAAATGA CACTGGAAGG AACATCAAAG CCCAGCTAC AAAAGAAAG TCATCAAGCC CCAAATAGAA GGGGAGCCT
 CCCAGTGCAC CTCAGAAAT

SEQ ID NO:460: (Length of Sequence = 380 Nucleotides)

GAGCTTTTGC ACTGCAAAAG GAACAGTCAG CAGAATAAAC AGACAGTTAG AAGTACTTCC CTATGTAGAG ACACACTCAA
 GTGAAAGGGA ACCAGGCTCT ACCACTTGAA ATAAGGAGTA TCAAGGAACT TGTGGACAGC TTTTAAACT ACCACTGGCA
 ACTAGGTCTT GAGGTGGATA AATGAAGAAA TTTGGGGAAT CTCACACTGG AGATGTTTGA TGTAGGTAAA TGANCTGAGA
 TTCATTAGGT GTGAAATAAT GAAGTGTATA TATAGTTCTG CATATACATG CCTGGGGAAG GTATAATATT CAGAGGCATA
 CTATCACTCA ATTTGTATCT GCTGTGGGCC TCAGACAGTA CAGGGGCAGT GTTTCATTG

SEQ ID NO:461: (Length of Sequence = 317 Nucleotides)

GTCATTAGA AGCCTTTATT GGGTATATT CAATTTGACC TCCCACCAA TTAAGCGGGA AAAACAAA AAATAAGAAA
 TCCAGTAAA AGAGCCCTC AAGATTTTAT AACTACAA CTAAAGCTGC TAGTTAATAA GGAAATGGCA GAATTTTTCAG
 AGCTGTATA TACAAAATT CTTGTAATT AAGCAGATGT TTTCTCACT GATGACAAAT CTTCCACAC AATGTGAAGT
 TATGCTACTT GGGATATTG TAGGCAAAAC CATTTTTTTT TTGTACAAA ACAAAAGCAA GGGACCNTGG AAAAAA

SEQ ID NO:462: (Length of Sequence = 261 Nucleotides)

AAAAAGGCCA TAAATCCTIN CCTCGTGA GCTTACCTTC TAATAAGGAG AGACAGAGGG TNAGAAACAA ACAACAAA
 ATATGINAGT TAACACAGAG TGTGGAGGG TGTAGGTGC TATGGAGAA ACGTGGAGCA TGTCAAGNG AGAGCAGGCA
 AGAGGGCATT CTGGAAGGC CTAGGANGAT GGTGACATTT TACCTTCATA TCCACCAACC CCCAGCACAA AGCATTTTCC
 AGAGGNAGNC AGAGGAGGGC A

SEQ ID NO:463: (Length of Sequence = 387 Nucleotides)

ATACAAGTAC ATCCAGGAG TATGGAGAAA GAAGCAGTCT GATGTCATGC GCTTCTTCT GAGGGTCCGC TGCTGGCAGT
 ACCGCCAGCT CTCTGCTCT CACAGGGCTC CCGCCCCAC CCGCCTGAT AAAGCGCGCC GACTGGGCTA CAAGGCCAAG
 CAAGGTTACG TTATATATAG GATTCGTGTT CGCGTGGTG GCCGAAAACG CCCAGTTCCT AAGGGTGCAA CTTACGGCAA
 GCCTGTCCAT CATGGTGTTA ACCAGCTAAA GTTGTCTGA AGCCTTCAGT CCGTTCAGA GGAGCGAGCT GGACGNCACT
 GTGGGGCTCT TGAGAGTCCT GAATTCCTAC TNGGGTTTGG TGAAGATTC ACATACAAAT TTTTGA

SEQ ID NO:464: (Length of Sequence = 397 Nucleotides)

GTTAGCCGTG GGCTGTGGG GTCCCTGAA CGTACCAGGT ATTGTGGCTC CATTTGGCTGA GGATGCTTCT CCAGCGAAGG
 AGGCAGGGAG CCGGGGAAGT GGGTGGGGT CGGACACCG ACAGCAGCTG CCAGACCAGC CATGCTGCGC TCAGCTCCCT
 CAGGCTGTCA CTCTTAATCA TCATGTCAT ATCTCTGGG CGTGTGAGT ACCATCAACG ACGTGTCCCC CAAGCTGCAG
 AGGACGCAAA TCCAGCTCTC CAAGAGGCTC TGTGGCCCT CTCACATGG GCTTNAAGGT CAAGGGTTGG GGGCAGTTT
 GGACCGNCCT TCCTGNCCT TINGAAGAAG ATCTCCAAN GTNCCGGCT TCAGCTTCT CCGGGCTCT TTTGGCA

SEQ ID NO:465: (Length of Sequence = 320 Nucleotides)

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GACGACATTT ATTCTTTTC CAAATGTTAC AGTAAAACCA GGTGGAAGAG AATGGTTTTA GCAGTTAGAA AAAAAAAAAA
 AGTACAAATC TGGGGTTTGG CCATTAAAAG TTATTTACAA CAGTGGGAGA AAAAAAGNCA AGAAGTTGTT TCACATTACA
 GACCTCCCCC CACCCCAAAG CCTAATACTT GCTTACCAAG TCAAAAAGA GACACAGTTG ATTACAGGC TGGAGGTTTG
 AACTTGAGTA AGACATTTAT AAAAACCTAG ACGGGGCAGT GTCTNCCCA GCCCAGGTGC CACTTAGGCC AGCACAAGGG

SEQ ID NO:466: (Length of Sequence = 352 Nucleotides)

CATTGTATTT CCCTTCTTCA AATTAATTAC CTACCAAAAA ATGGAAGAAG ATTTTACATG CACTTTAAAA TAGTAAAATG
 GAAAGTGAAT TTTTAAAATA TATGCATTAA AAGTTTACTT TAATTTCCAG TGGGACTTCC TTTATGAAAT TTTCCATAAC
 CTCTTCTGG AGTATTACAA GATCTCCAAC ATCTCATAAA CTAATTGTGA TATTAGTGA ACCATAAGCA AATGTATATT
 TTTAGTGGAA ATAGATTATG AATGAAAGCC AAGCACCTTA CTTTAAAGCC AAAATATGAG ATTTTCCATT AAAAACCATT
 GGTCCATAAT AGGGAGGGGG GTTTTTTAAT TT

SEQ ID NO:467: (Length of Sequence = 352 Nucleotides)

TGAAAGGCAA AAAATAAATA AATAAAAATA AATACCATTT GCAGAGACAG AGAAACCATC AGAAGAAGAC AAGCAAGGTT
 GTTTGAATTA CTACGCTAG AATTTAGAAT AACTACTATG ATTAAAACGA AAAAGGCTTT AATGGATAAA ATAGATAGCT
 CCTAATAACA GATAGTAATA ACATATGGGT AATGTGAGCA GAGAGATGGA AATCTTAGAN CAACAACAGC AACCAACGCA
 AAGCGTTAGG GATCAAAAAC ACTGTAAACA AAATTAAGAN TCCTTTTAT GGGCTTNTTA ATAGNCTNGG ATACAGGTAA
 GTAAAGAATC CCGTGTCTTT AAGGAGCCAT CA

SEQ ID NO:468: (Length of Sequence = 336 Nucleotides)

TGACATCTGC ATCTTACATT ATTAAATGCA AAGGAATATC AAAGACTCCT CTGCTAGAAC CATTTTTATT CATAAAGTCA
 CATTATCATT GTAGAAGTCT TGTA AAAATG CTACCTGAAA TGAATTATGT CCGTCTTCCC ATCTGGCTTA CAAATTCTT
 GAGGAAGCAT CTGCTGTGTA GCTCTTTATC TTTCTATTTC TACTACAGG GACAATGTAT ATGGAAAGAT AAATGTGTGT
 AGGTGTATAA ATTCTCAATA AATATTGCT GAATTAGATT GTACAGTTGT TATCTTTTAA GNTTAACTCA TCCTGAGGTA
 CATTTTATTA TTGGGC

SEQ ID NO:469: (Length of Sequence = 156 Nucleotides)

GACCGATGTA GAATTCGTGC TGGAGACGTT CTCCCCTTCA ATTCAATGGG AAGGNTCTTT TCTGGCATGA NCTCTCCGAT
 GTCTAATGAG CTCTGAGCAC CATCCATAAG CTTTNNCACA TTCITTANAT ATAAAAGGTT TCTCTCCACT GTGAAT

SEQ ID NO:470: (Length of Sequence = 350 Nucleotides)

TTCTCATGTC TGAATTTAC ACGCACAGT CTGAAATGTG AAGGTTTCTT AATGTTGGTT TTATGGTTTCG TGTAAGATTT
 TTGGGAAATG AAGGGCTCTT CATTAGGATA AAATGGTCTT AACTTCCCAG AGAAGAATTT CCTGACAACG TGGCTGAAGT
 TAGATACAAA TGTTAATATA GAAGANTGCT TTTATTGAA TTTCTAGCAA ATGGTTTTCA ACTACTTTAA ATATGACCNA
 CTTGAAAGTA TTATCCINT TTTAAACTA CTTTINATGT ATAGATCTAA GGTCTGCTTG AAGCTAGTAG GTTAAAGTGT
 TTGAGAAATA AAGGCAAGAT TTTTNCNTTA

SEQ ID NO:471: (Length of Sequence = 270 Nucleotides)

GGAGCAGGGC TGGGAGTCAG TGGGAGATTG GGAGTCCAAG TCTGGACATG TTACATATGC TATGTCTATT ACAGATCTGA
 GTATAAATGT GAAGTGGAGT TTTACCACGT GATTCTGAAG TTCAGAGAAG AGGTACAGGT TAGAGATAAA GATTINGGAG
 TCACAAATAT AAAGATGTAT GACTTINATGA GATTACCAAG GAAGTGGAGA TTAATAGCAA AAAGAAAAGT TTCAAGCTTC
 AAGCCCCGAA GCATTCTAAT GTTTACAGCT

SEQ ID NO:473: (Length of Sequence = 345 Nucleotides)

TTTATGTAG TTCAAATACA TAAACTGAAC ATTCAAACAT CTTAAAATTA AACTTTAGCA ACAAAGTTTA ACATTCAAAC
 AGGAGTATAG TTTACAAGAA ACACCCAGAA AGGTAATTG TTGTCTAATC CAGAATATTG ATAAAGATCA CTTAATGGTG
 AATAAAATAT GTTTAACCAG TGGTTCTATT CTGGCCAACA TGTTAGTTAT GACCGTGGTT CCATACCTGA GAAGAAATTA
 CTACATAAAT CTCTCTTAG GCTAAACAAC ANGACTCGGT CTATAATTCA GAGGGGNTAA TCAAAGCAG TAAGGGTACC
 AAAATAAAAC TAATCTGATC TTTAG

SEQ ID NO:474: (Length of Sequence = 433 Nucleotides)

CAGAATTAGA GCTGTACCCC AAGGGGAAT TCTGTCTAG GAGACAGTGA GTNCTAAGTA CACTCTGGAC AAGCACCAGA
 CACAGAAGCT GCCTCAGTTT GTGCTCCCC TGCAAAGCAG AGCCTGAGAC AAGGATTTGG GTACAAGGAG TTTCACTCAA
 TATTATATTT CCAAGATGCA CCCATGCTTT ATATGGCTAT AGTGCATCCA TTTTACTGCT TTATACTTTC CATTAGGTGA
 CTATATTAGT ATATATTAT AATTCCTAGG TCTTTTGT CTCTTATTG TTAATAATTA TAAACTCCAA GCCCATTGTG
 GTAGATTGCT ATTTCTCAGA GATATTTTCT GCTCCTCTCT GGGGACAAT AATACTNITC TCCCATCAAT GGCAGATGTA
 GGGCTTGINA CATTTTCTGG TCAATGGAAT GAG

SEQ ID NO:475: (Length of Sequence = 427 Nucleotides)

GATATGGTTT GTGTGCCAC CCAAATCTCA TCTAGAAGTG TAGTTTCCAT AATCCCCACG TCGTGGANGG GACCTGGTGG
 GAGGTAATCG AACCATGGGG GTGGTTACCT CCATGCTGTC CTTATGATGG TGAGTTCTCA TGAGATCTGA TGGTTTTATA
 AGGGACTTTT CCCCCCTTGT CTCTGCACTT TTCCATGCTG CCACCAGTG AAGAAGGATG TGTGTGCTTC TCCTTCCACC
 ATGATTTAAG TTTTCTNAGG CCTCTCCAGC CATGCTGAAC TGIGAGTCAA TTAACCTCT TTCTTTTAAA AATTACCCAG
 TCCCAGGNAT GTCTTCATTA GCAACCTCAG AGCAGATTAG NCACAATTCC ACAACTTGA GAATNGGTGT TCAAGTTTCA
 CTCTGGCCTT NAACAACCCA AAATTTA

SEQ ID NO:476: (Length of Sequence = 351 Nucleotides)

CGCCGCTAGG GCGGCNGGGG GTCGGGACGC CGGGCTAGGG GCGCGTCATG TGGCCGCTCA CGGTCCCGCC GNCGCTGCTG
 CTGCTGCTGT GCTCAGGCCT GGCCGGACAG ACTCTCTTCC AGAACCAGAG AGAGGGCTGG CAGCTGTACA CCTCAGCCCA
 GGCCCTNAC GGGAAATGCA TCTNACGGC CGTATCCCA GCGCAGAGTA CCTGCTCTCG AGATGGCAGG AGTCGGGAGC
 TGCGCAACT NATGGAGAAG GTNCAGAACG TCTCCAGTC CATGGAGGTC CTTNAGTINC GGACGTATCG CGAECTCCAG
 TATGTACGG GCATGGAGAC CCTCATTCGG A

SEQ ID NO:477: (Length of Sequence = 333 Nucleotides)

GGTCTCACTC CGTCATCCAA GCTGGAGTGC AGTGGTGCAA TCCTCAACTC ACTGCAACCT CCGCTCCCGG TTTGAGTGAT
 TCTCATGCCT CAGCCTCCCG AGTAGCTGGG ATTACAGSCA TGAGCCACTG TGCCAGCTG GGATATAGAA TCTAAGAGTT
 GATTGTGGAA AACACGTGAA TCTATTGCGC GCATTINICA TTTAGCAAGA TGGCAGCAGT CCAGCTGTTC TTTGCAGCTG
 GAGATGAAT TTTAAAAATC CCTTCACAC TTAATGTACT GACCGAGACA GAAGTACCTG AAAACAGCT NTGCATGGCA
 GGCCCGGCAA TAG

SEQ ID NO:478: (Length of Sequence = 458 Nucleotides)

ACATGTTAAA ATAAGTAAT ATGAAATAAT CTAAAAAAA AAAAAGTGCA GAACCAAGAC CTCTGTGATA ATCCTATTTA
 AAAAAATAGC TACAATTITA GTTAGAATGT TTCCCTTATG AGAAAGCATT TTCTGCATAA CTTTAAATGT ACTGACCTTT
 TCCAAGCTTG CTGAGCTGGC CTTGTCTICA ACTCACTTGG GACACCCTTC CCTGTGCTC ACCAGGGCCC ACCCCAAGTC
 CCAATTCTC TAGGGGGTCT CTCGGGACCC CTGAATCCC TTINCTGATT TGTGCTGCCT TTAGCAGNCG GAATGGGCTG

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GCAGACCACC CTACATNCTC CTGTGTGTGG GGACACTGTC AGGNTGTCTT CCTGTCATTA GNCCTGTCTG AGTTTCCTAC
CATGTGNCCA GGATGNGTIC CATAGTCGGG GCATNAAGGA CTTAGGATGG GCCCAGTC

SEQ ID NO:479: (Length of Sequence = 360 Nucleotides)

GCATCGTATC TNCITTAAGA AAAACACTTC TTCAAAATCC TACACTATGA AAACTGTCTT TCAGGAATTG TTTATTTGGT
CCGTTGATCT AGTGAGGCTG AGTTCCTTAA TCTTTCACCC CCAAGTTAAA AATTGGAGCA ACAAACAAA ACTCCAGCAA
GGCATAAATA AGATATTAAA GTGCATATAT ACAATACCAG AAAAGTTTAG ATTGGGAACA GCAAAAATTT CTAGTGCAAA
AACTGCTTTT GCCAGCAAAG CTCCTCTCTT GGAATCAAAG GGCTACAGTA AAAGTTAAAA TTGGAACAGG NTTAAGCAAT
GTCTGTCTTT AGTCACAAGT NAATATATGT GCATGCACCC

SEQ ID NO:480: (Length of Sequence = 322 Nucleotides)

GAAATTAAGT CTAAGCAAAA AGAAAAATAA AATGACGAGT TACTGGGTGC AGCACACCAA CATGGCACAT GTATACATAT
GTAACAAACC TGCCCATCAT GCACATGTAC CCTAAACTTT AAAGTATAAT AAAAAAAAAA AAANTGAAAA GCTTCAGCCA
GAGGTCACAA TGCTCACAAC TCATTGACCA AAACATCTCT ATACCCGINT TAGAGCANGG NGCAGGAAAG CAAAACCAAT
CTTCTTACTG TTCACTGGNA TACAAGTTCC ATGAGGGGAT GCAATTININ TCTTGGNCAC TCCTGTGTCC TCAGGGTATA
GG

SEQ ID NO:481: (Length of Sequence = 369 Nucleotides)

CCTGGGCAAA GCATTGATCT GGTAGCCTTG CTCCAGAAGC CTGTTCCTCA CAGTCAAGCC TCAGAAGCCA ACTCCTTTGA
AACTTCCCAA CAGCAGGGCT TTGGCCAAGC CCTTGTINTC ACAAATTCGC AACACAACAA TCAGATGGCA CCAGGGACTG
GCAGCTCCAC TGCCGTCAAC TCTGTCTCTC CTCAGAGCCT GTCATCCGTC CTGGGCTCAG GATTTGGAGA GCTTGACCA
CCAAAAATGG CAAACATCAC CAGCTCCAG ATTTTGGACC AGTTGAAAGC TCCGAGTTTG GNCAGTTTT ANCAACANCC
CAAGTACACA GCAGATAGG TACAAGTCAA CCTACAACT ACTACTTCT

SEQ ID NO:482: (Length of Sequence = 255 Nucleotides)

GAGAGAATCT CGCTCTGTG CCCAGGCTGG AGTGCACTGG CGCAATCCCG GCTCACTGCA ACCTCCGCTT CCGGGTTCA
AGTGATTCTN CTGCCTCGGC CTCCCAGTA GTTGGGATTA CCGGTGCACA CCACCGCACC CGGCTGATTT TTTGTATTTT
TGGTAGAGAT GGAGTTTCAC CATGGCTGGG CTGGTCTTGA ACTCTGATC TCAGGTGATC TGCCCGCTC AGGCTACCAG
AGTNCCTGGG TTACA

SEQ ID NO:483: (Length of Sequence = 353 Nucleotides)

CTGGATAATC AGGGCCATGT GCTTTAACAG GATGTAAAGG GGAAGCTCAT GATTAAACAT GGGAAATATG CAGCAAATTG
CAAGACCTGA GCTTAACCGC ATAATTAGAA CATAATTTIN CACTTCTTCC AGAGCATCAG CCAAGCAAAG GACTGAGAAA
TCTGCAACCC AATTGTCTTA AAAAGAACT TAGGCTTCAC ATTTGTGACA TAATTTCTTT TAAATGAAT ATAAATTTT
ATTTTINATA TTTGTAGAGC ATAGGATGAT TGAAATCCAG TTGTGTGTTT ATCTGACCTC CATATCTAAT ATGGCTAGTG
CCGTACTAC TCTACAGAAC GCGCAATAAG TCA

SEQ ID NO:484: (Length of Sequence = 371 Nucleotides)

GACCCAGAAA ATGGAGCTAG CTACATTTCT CACACTTACT GTCAATAATTA CATGTTTATA TTCTATTAGT TGTAATTATT
TTTCACCIAT CTTCTATTGA GAATGTTATA CCTATAGAGC AGATACCATT CCAGTTTTAA TTTTGTGCCC CGACTCCTAG
TAAGTACGTG ACCTATTACA GGGAACTTAA AACAAACAAA AAGTCTGCTG AGTCTGGGAT GTTTTAAGGA TCGAAGGAAC
ATGTTGGTCC AATTTCCTT CACAGAGGGT TACCTCTGCT TTTCTACOGA ATGTGGAATT GCTCCCATGT GGATTTTNA
GGAATTCCAG TCTACCCTCA GGGGAAGGNC CACATGTAAT GCCAGAGGTC T

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SEQ ID NO:485: (Length of Sequence = 376 Nucleotides)

GGTCCGACGC TGTGTCAAGC TCTGCACCGG CCATGAGTAT GCAGCCAAGA TCATCAACAC CAAGAAGCTG TCAGCCAGAG
ATCACCAGAA GCTGGAGAGA GAGGCTCCGN TCTGCCGCCT TCTGAAGCAT TCCAACATCG TCGTCTCCA CGACAGCATC
TCCGAGGAGG GCTTCCACTA CCTGGTCTTC GATCTGGTCA CTGGTGGGA GCTCTTTGAA GACATTGTGG CGAGAGAGTA
CTACAGCGAG GCTGATGCCA GTCAGTGTAT CCAGCAGATC CTGGGAGGCC GTTCTCCATT GTAACCAAAT GGGGGTCTGTC
CACAGAGACC TCAAGCCGGA GAACCTGCTT CTNGCCAGCA AAGTNCAAAG GGGCTT

SEQ ID NO:486: (Length of Sequence = 396 Nucleotides)

TIGATATTTG TGTCTAATTC CAGCTACTTT GAAAGCTAAG GCAAGGGGAT TACTGTATTA ATAAATTCTC ATGCTGTAA
TAAAGACATA ACCAAGACTG GATAATTCAT AATGAAAAAG GTTAATGGCC TCACAGTTTC ACATGGCTGG GGAGGTCTCA
CAATTATTGG AGCAAACAAG AGACTTTGTT CAGGGGAATC TCCACTTATA AAACCATCAG ATCAGTGAG ACTTTTTTGC
TATCATGAGA ACAGCATGGG AAAATCCAC CCCCATGATT CAATTACCTC CCACAGGGTC CCTCCAGGG ACATGTGGAG
ATTATTACAA TTCAAGATGA GATTTGGTTG GGGACAGAGA GGCCAAACCA TATCAATTAC TTAAGGCTAG GGGTTT

SEQ ID NO:487: (Length of Sequence = 375 Nucleotides)

TGATTAAAT AATAGAGTTT AGTAATATGG ATGAATATAA GATAAATATT TAAAAAGCAG TTGTATTTTT ATAGCCCAGC
AAGATAAAGT TCAAAATATGT ATTTTTTATA AAGATGGATT TACAATAACA TCAAAAATTA AAATGCACCT TGAAATAATA
AAGACATGTA AACCCTTTTA TGANGACAGA TTTTTTAANG CATTTTTAAA AATNCTTTTT CATTGACAAA TAATTATCCN
TATTTNTGGG GTACACAGTA ATGTTTCAAT ACATATAATA AATAGTGATC AGATCAGAAT AATCAGCTTA TCCATCATTT
CAAACACTTA TCATTTCTINT GTGTTAGGGG CCATTCAACA TCCTGCTTCT GGCTA

SEQ ID NO:488: (Length of Sequence = 323 Nucleotides)

CACATGATTA ATGATTGGNT TAACAGTATA TAAACAAGGG CCATGGTTT TTTTACTAAA GTAGGTCTGA AAGATCAATA
TAAATACTAA TGGGGGCAGG GAGGAGTGT TTATACCCCA AACTCCAATA TTCCAGCTCT GTGTCCTGTC CTATTATTAT
AATTTGTAAA AATCTTAACG ACGCAGTGAT TCGAGTTTTC GTAACFTCAA TGATGTGTTA GAGGACAATG CATCTTGGTT
TGAAGAATTT GCTGTATCCG AAGGCCGGA AAGTACTCGA CCACGATGAT TAAATACATA AAAGGATGGG TGATTCCTTA
CCG

SEQ ID NO:489: (Length of Sequence = 326 Nucleotides)

TTACCTTTTA CTCGATCAT AATCTCCAC CTGTCTAAGA GGTTATTTAT TCCTTATTTA GAGGGCCTCT ATTGCCATGT
GCCGTGAATT ATTATATGCT CATCACTTTA TGAAGAATAA AATTTGTCTT TCCTGCTTTA AAGTTACATT CGTCTTCCG
CTCAAATCCT GATCTGGTCC ATTAAAGAGT GTTCGCAGAC AAAGTTTCTG AAAGATTAGA GAAGAATCCC CCCCAGATT
GCCCCAACAC TGAACACAG ACAAACTA TTTTATTTAA ATAAGGNGAC AGCTTTCTAA AAGTATACAT TCCTCTAATA
AAAATA

SEQ ID NO:490: (Length of Sequence = 186 Nucleotides)

CTCAGATCCA TCAAGATGTG AAACTCGCAA GTTGGTGCA GAGAAGGTAC ATGGGTTTCC TTCTTTTCTC ATCTGTATTC
CCTTTTCTGC AATTATTTTC TTGCCACAT ACTAGCCAGC AAACCAGGCA CCTTTGCCAG AGCCATTAAG CTACAAAAAT
ACTTAATATT TTAATTIGAA CTCTGC

SEQ ID NO:491: (Length of Sequence = 347 Nucleotides)

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CCTGTACTTG TCGTCCCTCA TTCACTTAAT TATGATACIT GCCTGGCATC TTGCAGGTTT CTGATGCTGT TACCCAGTA
TAGACCAAGT GCAGACAGAA TTTCATTTCT GCTTTATTAA GGCACAGTCT TGAGAAACCC ATTGGCTTCA CACACAATTA
ATTAATTNT GGCAACAAGC TACTATATIG GCTTGCAITG CACTTTCACC TCCTGGGCA TTAGTTTNT CTAATATTTA
TAAAAGAAGG ACATGACTTT CTAAGGTTCC TTGCAGTAAT TATGCASTT TATTCTAATA GATGCTTAAG CATAAAACCC
ATTTTAATAC TGTCCCAAGG ATCCAGG

SEQ ID NO:492: (Length of Sequence = 320 Nucleotides)

GAATTTGNT CCAAAGTTTG GACATTGCAT TTCATTAAATA CGTCCCTTAA GTTATTTTA ATCTGTATTT TCCTCTCCC
TTTTGTGTTT TTTGTAATCT CTTTTGCTG TTGTTTTGGG TTAAGAAAC CATGTTTTTT TGTCTCTGTG AGTGGCTCCT
GTTCAGAATT TTAGTGATTT CATCTGCTGG TATCATTTAG CATGTTGCTC TGTCCGCGT AGTACTTTAA ACTAGACGTT
AGATCTAGAG ATGTGATCTA CTTCGGTAGG ACTTTGTCAA GAATACTTGT AAGTAGGTAT TTAGGTACCA GGGGNCACAT

SEQ ID NO:493: (Length of Sequence = 339 Nucleotides)

TGCCAAGTTT GCTGGAACAT TATCAGATGG CTTAGGGAAG ACGATGGACA ATCGGCATCA GTCAGAGCGG GAGTACATCA
GGTACCATGC AGCCACAAGT GGTGAACACC TTGTAGCCGG CATCCATGGC CTGGCTCATG GTATCATTTG TGGACTGACC
AGTGTATATA CTTGACAGT GGAAGGTGTG AAAACAGAAG GGGGTGTGAG CGGTTTCATA TCCTGCCCTG GAAAAGGGCT
TGTGTCAGT GTAACCAAGC CANTGGCAGG CGCCCTGGAT TTGTCATCAG AAACAGNCCA GCGGTGAGA GACACAGNCA
CACTTCAGCG GCCCAGGN

SEQ ID NO:494: (Length of Sequence = 366 Nucleotides)

GTAGGCTTT GGAAAGTAAT TAGGATTAGA TAAATCATC AGGGTGGGGC CACCATAATG GGGCTGGTGG CTTTATAAGA
GGAAGAGAGA CTTGAGCTGA CAGCATGTN CTTCCTCT TGCTATGTGG TGCCCTCAGC CATGTTAGGG CACAGCAAGA
AGGCCCTCAC CAGATATTGG GGTGGTCTN GACCTCCAC CTTCCAGAAC TGTAAGAAAT AGATTTTTTT ATATATTACC
CAGTCTATGA TATTCTGTTA CGGNAACAGN AAACAGACTA AGACAAGCTT CTTAAACAAA TTGANAATAG AGTTTTAAGA
TNCAGACTTT CATTCCTTT AACAGGGGCC AAGAATATCT ATTICA

SEQ ID NO:495: (Length of Sequence = 384 Nucleotides)

CGAGGAAGGC AAGAAGCGCA GGGGTGGGCC CGCTGGCGT CGGTGGCTC CGCTCTGCT CGCAGCCCT GTGGTCAGAG
CTGGATACAA GATTCAGAC CCTTCNTTG CTGTNACCC GCTCCAGTT GGAGCCACAG ACACCCACCG CCACCCCGGC
TGGGTCTGN TCCTTTCTG TGCCTTTCCC TCCAGAATGC GGCCTCAGAC CTAGAAGCTC AACCCCTTA TGAGGGCCAC
GTCTGGGGT AGCTCTGAC CTNCGACCT ATGTCCAAAT TTCACACCA TGGTTTTTCA TTTGACCCGG CCCCTTCTG
CTCATAATGA CAACNAGCTT CCTTTGAGAG GGATCAGAGN CCAATTGCAC AAGGAGGAGC CGCT

SEQ ID NO:496: (Length of Sequence = 342 Nucleotides)

TACCTTAGTA AATGCAATTT TCGAACAGGC CCCATCTTC AACTGGTATA GCATCTTCCA CACCTGTAG CTTCAAACA
TCACCTGTTA AATACTGCC CATTCCATGT CATGTATATC TGCCCATTTA TGGGAGCAGT GAGTGGAAAC CTGACAGTGA
CGGACTTTAA GCTGTACTTC AAAAATGTG AGAGGGACCC GCATTTTATC CTTGATGTT CCCTTGGAGT GATCAGCAGA
GTGGAGAAGA TTGTGNCAC AGAGCCATGG AGACAATTCC TGTGGTATAG AGATAGTGT CAAGGATATG AGGAACTTGC
GGCTTGCTTA TAAACAGGA AG

SEQ ID NO:497: (Length of Sequence = 273 Nucleotides)

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GATTTATTAA GTATCCCCGA AAATATAAAC ACAAAACAGT AAAAAACAAA ACCGTAAAAC GTCAGGCCTG GAGCTGCAAT
 AAGACAGAGA CAGGAGCAGC TCACACGTGG CCTAGGTGGG GAGGACGAGG CCATAAATAC TGCAGGAGGG CGGCAAGGGA
 GCCCTAGGGC GAGGGGAAAG CAGGGTGTGG GCAGCGAGAT GGNTCCNGGG GTTTAGACAC TGCTGGCTTC GGNCOCGGCC
 GGCACCANGA CTCTCACTTC CAGCTGCGAG CAG

SEQ ID NO:498: (Length of Sequence = 319 Nucleotides)

ATTCCCAAAA ATAGAGTCTG GACCTCTTAC CGCTACAAAT TCCAGGTCTT CAGGTACAGC CTGAGAGTAT GCAGATATAA
 TACACCACAG ATGATCTCTT CCCTTTTTTG TTTTTTTTTT TTTTTTTTTT TTTTGGAGACA GAATCTCATT CTGTCAACCA
 GGNTGGAGTG CAGTGGGCTG ATCTGGGCTC ANTACTTCTC CCGCCTCCNG GNTTCAAGCA ATTCTCCTGC CTNAGCCTCC
 CGAGTAGCTG GGNCTACAGG NGCACACCAC CATGCCCATC CAATTTTTGG ATTTTAAGTA TAGTGGGGT TTCACCATT

SEQ ID NO:499: (Length of Sequence = 408 Nucleotides)

GAGAAATACC TAATGTGAAT GACGAGTTGA TGGGTGCAGC ACACCAACAT GGCACATGTA TACCTATGTA ACAAACCTGC
 ACATTGTGAC ATGTACTCTA GAAGTTAAAG TATAATAATA AAAAAAGAGA ACCTTTAAAA AAAAATAGAC TGCCAGATAG
 ACTAATAAAT AAAAAAGAGA GGTGAAATA ATCATAAATG ACTAAGGGGA TGTTACCCCA CAGAACTACA AAAAACAAAC
 AAAAAACCT CAGAGACTAC TAAACACTC CTATGCACAC AAAGTAGAAA ACCTAGAAGA AATGGGTAAA TTTCTGGAAA
 CATAACNCCA CCGAAGATTG AACCAGGGAG AGATTAAAGC CCGAACAGA CTAATAATGG NGTTTCAAAA ATTGAATCAG
 TAATAAAA

SEQ ID NO:500: (Length of Sequence = 474 Nucleotides)

TTTTATTTTT TTCACTGTTA CTGTTTTTNA TCTTTGATTG ATAAAAATGA AAATGCCAAA ATGAGGGTTA GCCTAATTTA
 AAGTATAAGC GTAGTTAGCA GCTTTTNTCTA ATCACTCCTG TCCATTTTAA AAATAATCCT CATAGGAGTA TAAACAGAGG
 AAGGAGAAAT GGAGGATGGG CTTAAGAGAA AGAGTATTTT ACAAATGTCT GCATAGCAAA TTCAATTCAT CTACCTAGTA
 GCTCCTTCCG TGTTAACCTA CAGGTGTCTT CCCCTCCAAA AAAAAGCATC TTTTAGGAAG AAACCACCTT AACACTACCT
 TTAGANGATT GAAGTTCCAG GGATAGGTG TTTGAGAGAA TCACCAAAAG CCATTTTAA ATGAATTTTT AAATTACGGC
 TTTCTCATT CTATATAATAG TGTAGCAGCC ACCCTCCCTC TACTATGGAA CTTTTAACCA ATAATCCAAG TCCT

SEQ ID NO:501: (Length of Sequence = 378 Nucleotides)

GTGGTGGCGG GCGCCTGACC TGTGATCCG CCCGCTCAG CCTCCCAAAG TGTGGGATT ACAGGCGTGA GCACCGCACC
 CGGCCCTTGT GTACATTTTT ATAAGAGAAT TTTTITAGCT AGGAGTTCAG AATTTTTTAA GTACCATTTG AATGATCTTA
 ATTTTNCITT CATGACAACA CATTCCAAA TGAATCATGC TTATGTACTA AGAGGGAAAA TGTATTTAAG NTAAGGGTGA
 GAGACTTAAG TTATAGGTGA CTTAGAGAC CTAAGGTGAG AGACTTGACA CATGGAAGGA GTAACATTAG GGTCTACCTC
 TACCTCAATT TAGTTAGCGA TTTACTACAA TTTAGAGCT AACAAAAGTA AAAATAAA

SEQ ID NO:502: (Length of Sequence = 448 Nucleotides)

TTTTGGAGAT GGAGTCTTGC TCTGTTGCC AGGCTGGAGT TCAATGGCAC AAAGTGGCT CACTGCAACC TCCGCTCCC
 AGGTTCAAGC AATTTTCTCT CTTAGCCTC CCGAGTAGCT GGAATTACAG GCACACGCCA CCATGCCAG CTAATTTTTG
 TATTTTAGTA GAGACGGGGG TTACCATG TTGGCCAGG TGGTCTCAA CTCCTGAAGT CAGGTGATCC ACTCCCTCGG
 CCTCCCAAAG GGTGGGATT GCAGGCGTGA GCACCACGNC CAGCCATGAT CCTTAACTT GTTTTAAGAG GTATAATAAC
 TGGAAATCAT GATGCTCTT AAGGAATACC AATTGGATG ATTATTGATG TATTTAATTC CATCCATATG NAGTAGAAAC
 AGTTTTCATT AGCAGAAGGC AATTATATTA TAGCTACACA ATATAAAG

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SEQ ID NO:503: (Length of Sequence = 446 Nucleotides)

CTACAGTACC CATCTCCATT TTCAGAGAGC TCGATGGAA ATTTCTATGA ACTAATTCTC CTGCACATAC TTTGGTACAA
 GTGGGCTACT GGAGCCACCT TCCTTCGTTT AATCAAACAG CATTATTTC A GCTTATTTAA TGAACACTAT CCAAGATACT
 TGGGGGACAG AAATGAAAAG ATGGGGAGAC CTGTCAAACA TATGGTACTA TGCTATGCA AAATAACATT GGAATGTAGA
 TTCACAGTGG AAGGCAGGGC AGGCATGGAA GAATTCAGAG AATGAGTGTG ACAGCTCCTA CCTGTACAG CTCTTCAAGC
 TCCTGCTGGA AGCGTTCAGT CAGCAAATCT ACTAGCTGGC TGCGGGCAAA AGTCCGCCCG GCTGGAGGAA AGTGAATTCC
 GGGATTTACA GAGCAGGTAG AGGGCATGCG GCCCAGCCCT CAAGCA

SEQ ID NO:504: (Length of Sequence = 248 Nucleotides)

TTGCTCTTCT TTCTTACCAT GGAACGTCC TTCTCAGGGG ATTTNAGGT CTGGTGTCTT CTGTGTTTCT NAATAGGCAG
 TTTCTCGCTG TCGCTAAGG GCTTATCCAG GNCAATATCC AGAGCCCTGT AGGGGTCTGT GGGGTCTTTG TCATCCTGT
 CGCTGGGCAG AGCATTCTCA GGCATCTCCT CTGTNACGAT GTCCACCTGC TGGGCAAGGG CGATGTCTCTC GTCTCTCTCC
 GTGGGCAA

SEQ ID NO:505: (Length of Sequence = 367 Nucleotides)

GCTATGTTGC CCAGGCTGTT CTCAAACCT TGAGCTCAAG CAGTCTCTC ACCTGTCTCC CAAAGTCTG GGATTACAGG
 CATGAGCGAC TGCTCTGGGC TTACTAAAT TTAAAGATT TGTGTGAAC CATCTGCTGA TCATGGAGCA GCAGAGAAAT
 TTATTGACAG ATTTTCTAGG GTCATCACTG ATGACAATCT GNTGCCAGAA CAAGCCTGTA ATGCTGATGA AACATCACTG
 TTCGGCATT ATTGCTCCAG AAAGATACTG ACTACAGCTG ATGCAAAGGC CCCTGTAGGC AGTAAGGATG CCAAGGACAG
 AATAACTGTT CTGGAATGTG CTAATAATGC AGCAGGCATT CAATAAG

SEQ ID NO:506: (Length of Sequence = 419 Nucleotides)

ACACCTGGTG ACTTTAGCTA TGCCTATCAA AAGCCTGAGG AAACAACCAG GTCCCCAGAT GAAGAAGATT ATGACTATGA
 GTCTTATGAG AAGACCACCC GGACCTCAGA TGTGGGTGGC TATTACTATG AGAAGATAGA GAGAACCACA AAATCTCCAA
 GTGACAGTGG CTACTCTAT GAGACCATIG GGAAACTAC CAAGACCCCT GAAGATGGTG ACTATTCCTA TGAAATTATT
 GAGAAGACCA CACGGACCCC TGAAGAGGGT GGGTACTCAT ATGACATAAG TGAAAAGACC ACCAGCCCCC COGAAGTGAG
 TGGTTACAGC TATGAAAAGA CTGAGAGGTC TAGAAGGCTT CTGGGATGAC ATCAGCAATG GCTATGGATG GACTCTAAGG
 ATGGTTGGCC ACACAATT

SEQ ID NO:507: (Length of Sequence = 417 Nucleotides)

GAAAACTATT TTAATTAAAA AATATTCTAT TACTTCAATG TCATGTCTGT TGAACGAGGA ACTCAACATG CTTATTINCC
 TTTGGTTCCA AGAAAAACCC AAGTCTAACC AAATGTATGC CACAAGGAAC TGCCAACTGG GTTAAAGCTT GGTATTTTCC
 TGGTTATCAC CCTATTTCCT GGTGTAGGAC CTGGGGTTTA ATAGAGACAT TTACATAAAA AAGGTATTTG GTTAAACAA
 GAAATATGCA TGCNCTTCCT TACCACCTTC CTGGGAAAGA ACTGCTTTT TTNCFTTCTT TCTGTGAATC TTGTTCAAGA
 CATCCTGTAG TTTAGATATA TGGGCTGCTT CTTTTTACC CTCAAGCTTT TAGGTGACAC TTATAAAGGT GAGCATATCA
 TTCTATAAAA TGGAAGA

SEQ ID NO:508: (Length of Sequence = 308 Nucleotides)

CTGTTTAGAA AAAAAAGTGC AGCTCACTGT CAGCACTCAT TGAATTTTGC ATAAACATGC TTTTGGAGGC TGAAGCAAAT
 CTGACTGATT TTCAATGTGA AAATAAATA TAAAANCIGT TTTAGAGTT ATTTATTAAC AGAACTAACA TCAGAATTAT
 TTGAATCACC AGAATAATCA ATTCTGGAAA AATCAGATT CACAGATTAA TCTTTGGCCA ACAACTGTTC AAGAACAATG
 TTAACATCTG CATGGCAATG CTACATTINC TAGGATTTGA CATTTTCAGC AATTGAGGAA TTACTATA

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SEQ ID NO:509: (Length of Sequence = 370 Nucleotides)

TTTTTGAGAC GGAGTTTCAC TCTGTGTGCC CAGGCTGGAG TGCAATGGCA TGATCTGGC TCACCGCAAC CTCGGCTCC
 CGGGTTCAAG CGATTCTCCT GCCTCAGCCT CCCAAGTAGC TGGGATTACA GGCACGCGCC ACCACGCGCTG GCTGATTITN
 TATTTTTAGT AGACACGGGT TTTCACCATG TTGGTCAGGC TGGTCTCAAA CTCGCGACCT CAAGTAGTCT GCCTGCCTCA
 ACCTCCCAAA GTGCTGGGAT TACAGGCGTG AGCACTTGGC CTTGGCGGTG ACTGATTTTT TTTCATGTAG AATTGTCAAC
 ACGAGAGATC ACAAGTGGAG CACTTTGAAA GACCGTCGGT TGTGTGCACG

SEQ ID NO:510: (Length of Sequence = 446 Nucleotides)

TCTTTCCTCT TACTTTCCCT CCTTCCCTCC TTTCATATGA GAGACTCTAT ATGGAAAAGG AAGCTGAAGT GGCTGCACA
 CGATATAGAA AAGCCATATT ACTTTCCTAA GACTGGTAAT CCGGCAATAC CTAATGCAGC ACATGGCTAG AGACTCCACA
 TTTGCCCAAC TTCTCTGCTC ATCATTTGCC ACTGTTCTGT AAATTTCCCA GTCCCTCAC AGAAAGCACA TGGCACCATT
 TAAATGGCT GCTCACTCTC TAAGGGAGGT CTCACAGGCT GGTAGTGAGC CCTGTCCCA TAGTGAAGTT CTCACAAAT
 GGGGAGACTT CTCCAGGAG GAGGGGAGGC CTGGAGATGG GCATGCAGTG GGCAATGTCA GCTGCCCTCC AGGTTCTTGG
 TTGCCCTTTT TCCGCCCTGG GTCAGTATAC AAGCTTTCCG GGGACA

SEQ ID NO:511: (Length of Sequence = 354 Nucleotides)

AATACCAAC TGAACAAACC TGTCTCTTC TGGTTAAAAC AAAAAA AAAACAAAAC AAACAAACA AAAAAATCAC
 ACAGTTTAAT AAAGANGCAA CTCTTCCTT TTAGGNGCAA GGACTACCAA TCTAATTCCT ATCTATTGAG CCCCCAAAAG
 CTCCCTTCAG AGTCTTCTT CTCTTTATCA ACAGAAAAGT CTAGAATGAN TATTCACAGT TTTCTAAGAA AACCGAAAG
 CCTTTAAGCA GCATTAGCTG GNCATATTC TGTTCCTAT AGTTACCATA GATGAGTACA GCTTTTACCT AGGGGGCTGG
 GAGTTCAGAC TCACAGCAGA GACTNCTGG GTAG

SEQ ID NO:512: (Length of Sequence = 374 Nucleotides)

CATGTATATT AAAAAAAGT TCCTGTACCA AAGTTCTTAT TAGACTTTAT TTTTGTTTTT TTAATTTTTA AAATTTTTTT
 TGTTTTTTATT TTTATTTTTT AAATTNCTC TCCTCGTGGT GACTGTCTAT TGATTGTCTC AGTTTCTGGA CCAACAAAC
 AACTAATAA TTTTAAATCT GAAACAGTGA TTGTCCCTTT NGGCTCATGT ATGTACAGG TGATCAGAAG TGGTACCTGT
 TAGCAAAGT GTCACGATGC TGCACCTTA CCGAACTGA TACCCACGAA CTACGGAATC TAAACAGACT ACACCCTGTA
 ACTGCGTATT ACTGTCCACA ATGGGGATCT CCAAGACAA AAGAGGTATG GAAA

SEQ ID NO:513: (Length of Sequence = 463 Nucleotides)

ATCAGCAGAT TTNCTCTGG TGAATGTCTA ATCAGTGTA TTCCATAGG CTATACTTAC CTTTGGGGG CTACTTGCCA
 ATNATGTTTG GTCAGTATCC TTGCAACAA CAGAGTGACA GATTCTAAAA ATGACTTTGC AGGCCAGTAC TAAGAAAGAC
 ACCAAGGTTT ATGGGCTTGC AAATAAAAAG TCCATAACTT CCTGCCCTA CTTACCAAG TGAAATCGAG TTCTCACAC
 TTCTGCACAC AGCTCTTTCA GGATCTTCCC TTCCCTCAA GGCTGTCTGA TGTTCAGTTT AATTTGATTG TATTGTATA
 AAGTGCTGAG TGTGAGTCC TCAAAGAAAT TTACTTTTCA TCTAANGCCC CCTTGGGACA AGAAAGTGGC AACCAGGCAA
 ATGATTGATT ACTTATTTGT TTGAGTATCA CTTTGTGATT GTCCAGGGC TGTATTACAC ATA

SEQ ID NO:514: (Length of Sequence = 396 Nucleotides)

CCAACCCAGA AACGTTTCC TGGCTCTCTA CTAACAGTAA AATGTGCTGA GCCCAAATTT TCTGCTCTAA CATGGGTCCC
 ACGGACCTAT CAGTCTGCTC TGGGGTGCTG ACCTGCTGGG TCCTGAGCAG GGTCTTTCCC TAAGCATCAC TGTGGGTTTG
 GAGACAGCTG TAATGTGTGC AGCTGTGAGC AGAAAGTACA ATGCCACTGG GCTACATATG TCCATATCAT CCACCACCAT

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TTCCCACTGT AAAACCAAAG GCTGCAACTG TGAACAAATG TGGACTTCCT CAAAGGACAA ATGAGGAGAC TGAAGGCTAC
ATTTCTCTCT TTAGAAGACC ATTAGAGAGT GTCTACAGTT ATACAACAGG TTTCTGCAAG ACCCTGTGGG TAACIT

SEQ ID NO:515: (Length of Sequence = 416 Nucleotides)

ACAAACAAA AAGTAGTAGC ATCTCTGTGA GAGGTACACA GTTAGAAAA TGATTCCACA CACGAGTAAA GAGATTTACC
AGGAAGAGTC TTGTTTTCTA AAAGITGATA CAACTAGTAG AAAAATACTT GTCAGTGGTA AATAGAGCAG AAGTAGAAAA
AGCAGTTAAT CTATTAGATC AGATCAGAGT GTAAGGCAGG TATATCAGGC CAAAGGTGAT AAGACAGAGC AGAAATAAAG
TATTGTTAAT TCATGCATTT NCTGACTCAT TTATTTATAC ATTGATACTG TCACTTATAA ATCAAATCTT ACAGGTCAGG
TTCTGTGCTA AGCTCAGGGG NTATAAAANG AAATANGTCA CTGCACTCGC CCTCACGGGG GCCCACCAGT ATAAGTGGT
AGATAGTTCT ATAAAG

SEQ ID NO:516: (Length of Sequence = 368 Nucleotides)

CCCATGGAGC TCGAGAACAT CGTAGOGAAC ACGGTGCTAC TCAAGGCCCG GGAAGGTGGC GGTGGAAATC GCAAAGGCAA
AAGCAAGAAA TGGCGGCAGA TGCTCCAGTT CCTCACATC AGCCAGTGGC AAGAGCTGGG GCTCAGCCTC GAGCGTGACT
ATCAGAGCCT GTGCGAGCGG CANCCATTGG GCGCTGCTG TTCCGAGAGT TCINTGCCAC GAGGCGGGAG CTNAGCCGCT
GCGTGGCCTT CCTGGATGGG GTGGCGGAGT ATGAAGTGAC CCCGGATNAC AAGCGGAAGG CATGTGGGGG GCANTAACCG
CAGAATTTTC TNAGNCACAN GGGTCCTGAC CTCATCCTG AGGTTCCC

SEQ ID NO:517: (Length of Sequence = 393 Nucleotides)

CCCAGCGCCT GGAGAGCCAG CCTGCGAGGG TGGGCTGGGC GAGCCAACT GCGTTCCTGG TGCAGGGCTT CGGGTCTCCC
TAACAGACCT TATACGCTGA COGGCGGCGG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGGGACGACC ACATTGCTCC
AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGCGAATCGT TTCTCTCGCG TGCCCTGTCA GCGCTCATG GTGCCAGAG
AGGAATTTTA GTGGCAGCAT TCCGGCTGTC ACNCACOGA AATTNCCAGG CCACTCCAAG TCAGAAGGGA CCACCAGGAA
AAGTCAGGAA GAGAACCACC ATCAAGGTCC CAGGCTCTTT TTTGTGACA AGGACTTAGA GGGGTTTGGG TCT

SEQ ID NO:518: (Length of Sequence = 465 Nucleotides)

CCTTCTCTGC AGATAGAAGA GCCAGAATGG GAAAAGCGAA GATCCATCAA CCTGTCTGAG CTCATTGATG TTTACAGTGA
TGGTGTGAA CTAATCCAGA TGGTGAAGGC ACCAGATTCC AACTGCAGCA ACCTTCTGAT TACAACCAGA CAAAGCCTTG
TNTGCTTCG GGGGCAAAAT CTGACACCTT ACTGGGCATT GAGACTTCAA GGCTGCGCA GCAGCCTACT CCTGGATATT
TCACTGATGA TCAGACATTA GACTTCCTTC TCAGATACA GGATGGAGTT GGGATGAAAA AGATGATGGT TGTGGATGGT
GACTCTGGGC TCCATGTGTT GGAGTTACCG TGCTCCGTTG TCACATGAAA GAAAACGGCC AGCCACCTCA GCAGTTACTT
TCAGACCAGA AGTCTGTCTT TCCTCTCTG GGGCGAAGG CTGTGAGGT TGCATCTCC CAATT

SEQ ID NO:519: (Length of Sequence = 382 Nucleotides)

GGCCGTCGGT AACAGAAAAC TCAGTGCATA CTTTGCTGTT GTTAGGTTGT CAATATAGTC TTTCTGTAGG ATGGATAGCA
TGTTTGAAGAG GTGCCAAACA AGAATTTTGG GGGTTAGTAG TGTGCTTGT GGAGGGTATT ACAGGACTGT GTAATTATAG
GACTCTAACT TGACATGGCT TGGCACCCAC TTGCAGCTAG TGGGTACAGG GTACAAAAGA TGTTAGAGAA AAGCTCTACA
GATTACGTAC TTCTGTGCTC TCGTATGCTC AACACTGTCC TTTGTCTCTC CATGAAAGAT GAAGGAAGCA AATTATGTA
TGINTTTCT TTGACCTCT TTAATCCTCT GATACTTTTT AGATTGCATG ATTTTACTAG GC

SEQ ID NO:520: (Length of Sequence = 304 Nucleotides)

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CCAAGACTGC TGATCTCTAA ACAAGCATCA AAACCCGAAG CTCATTAAACA TCAGAGTGAG CTTCAATAAG GTGANCACTA
 CAATGATGTA CAATTACATC CTAATANTTC ANTGCCCAAG AGCCCTGTAG AACTATTGCA AGGCCCAGGN TTATCACAGT
 ATGCAAATGC ACTAGGAAAA TCATTACCTA TTTAGTCCCC TTTATTTTGG TGGGTTTAAC ATGAGAAGAG TAATCCATGC
 TACAAGACGA GATTTTCATT TACAGCTGTA GTAGCCAAGT GCATAAAAGC TTGANTCTGT CCGA

SEQ ID NO:521: (Length of Sequence = 360 Nucleotides)

TTGAGACGGA GCTTTCCTTG TCACCCATGC TGGAGTGCAG TGGCGCTATC TCAGCTCACT ACAACCTCCA CCTCCCAGGT
 CCAAGTGATT CTCCCGCCTC AGCCTCCCAA GCAGCTGGGA TTACAGGCGT GAGTCACCTG CCTCAGCCTC CCACAGTGCT
 GGGATTACAG GTGTGAGCCA CTGCGCCAGG CCTCCCAAGG TGTGGGATT ACAGGCGTGA GCACCGCTCC GGGCCTCCCA
 CAGTGCTAGG ATTACAGGTG TCAGCTGCTG CACCTGGCAA TTTTGTGATA TTAGGTCCCC TGAAGTCCAA AAAGAGATAT
 ATGGCTTATT TGGTATAATG AAATCATACA GGAAGGCATT

SEQ ID NO:522: (Length of Sequence = 287 Nucleotides)

TTGAGGAAGT TCTGTGCTG GTGAGGAAAT TCINTTGAGT TCTGTAGGAA TTTTATAGC TTGTTTGCA TTCAGTTCTA
 TCAACAAGCC AGCAGCAACT CAAAGGGAAG CCTCTNCTG GCATATCAAT CACACAGGCA CATAGGATCA TATAGCATAT
 AGGATCAGTC CCAAGAAGAA CTATNGGGIN GGGGAGAGGT TTTTCTTCCA CTCTTGGGN TTCAGTGACT TTGAGATGGA
 CCTCTTTTTT CCNNTGGACA AAATGTCATC ACACCAACAT CTTATG

SEQ ID NO:523: (Length of Sequence = 318 Nucleotides)

CCTGTCTCT ACTAAAAATA CAAAATTAG CCGGGCATGG TGTACAGTGT CTGTNATCCC AGCTACTCGG GAGGCTGAGG
 CAGAAAAATT GCTTGAACCT GGGAGGCAGA GGTTCAGAC AGCTGAGATC ACTCCATTGC ACTCCAGCCT GGGCAACAAG
 AGCAAACTT TGTCTACAAG TCCTCCTACG CTGACAGGTC CTCACTCACC TGAATCTTTT ACGCCAGCAG CGTCTCTTCA
 CTGACGINCT TCTNCATGCC GGAAATAGGA CCTTCCCTTG CCANCGGGCA GTGCTGGCTG CATGCAGTCG TTACTTTT

SEQ ID NO:524: (Length of Sequence = 238 Nucleotides)

ATCTCATTGG AGCCAGGGTT CCAGTTCCTA TGCAAGTCGG CCACAGGAGC CACGGAACCG CAGTAGGATT TCTACTGTTA
 TACAGCCCTT GAGGCAGAAT GCAGCAGAAG TTGTGGACCT TACCGTTGAT GAAGATGGTA AATTGAAGTA GTAACAGTAG
 AAAATTATGA AAGGAGTTTG ATAAAGGAA ATCTCTTAAT ATGCTAGAAA CTCTCCTGC TFACTGGTAA TATATTAT

SEQ ID NO:525: (Length of Sequence = 168 Nucleotides)

CCAATGAGTG TGGACCCTAA ATTTAAACAG CTAAAGCTAT AGTCTAAGGA CAGTCTCAA TAAATACCTT TGAATTGTCA
 TATGGTGCCC AGGAGGGTCT TGTGGAAAGG GTTTCATGGT AGTGAAAGAT GTAATANCTC TTTTTCCTT TTAACCCTAA
 GCCTGTCC

SEQ ID NO:526: (Length of Sequence = 387 Nucleotides)

GGAGGTCACA CGGTGAAACA GACACAGTTA TATACAACAG GGCAGGTTTT TAAAAAGAGT TGCTCTCAGA CGCATTTTTTC
 CTGCTCCCTA AAAAGCCGAG GAAGATACTG GNTCCACAGA AAGAAAAGGC AATGCCGTAA CATGAGGCCC TCATGGCCGC
 ACCGTCCAGG GGAAGGGCTG TTA AAAACAC AAGTATCTT GTGAAATACT TCGATCTGAG CATTAAGGCA GGTCTGCAGG
 AGATCCGTCC TGGGGACTCG GACAGCAACG CTACCGGCTC CGAGAGGACA GTTAAATGTC GCCTCCCGGC AAGAGGGGCG
 GAGAGATCAG ACAAGGAGTT GTTCTGAGT TNAAACCTGC TACAACAGCA AACTCCAATA AACTCAA

SEQ ID NO:527: (Length of Sequence = 336 Nucleotides)

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TTTGCACTTT TACATTCCCC TAGTACATCC CTGCTTACTC GGGAGCACAA AGCTTGGTTG TAAGAAATTG TGATTTGGAA
 GTAGAGAAAA GCAAGGAAGT CCAACCTCAG GAGTGTCTCT GTTACTAAGA GGAGAGTGAG ATCCAGGGTG TGGGAGATGA
 TCTGAAGGTC TATGGGTGGG GAGTGCCACA GGAAGAAGGG TTCTGGTCGG AGTTAAAGGA GGATATATCT ATATNCTGGG
 AGATGAGCTG AATTGAGAAC ACATGGAATG GGAACAATTC TCCCCATACT GCGTTAAGC CAAATTAGGC TGGCATCCCC
 CACCACGGCC AACTAA

SEQ ID NO:528: (Length of Sequence = 482 Nucleotides)

TTTTACTCTA GGTGAGGAG GGGGCTCCT AAGGAAAGTC ATGCTGGGTA AACTGTGCGA TGTTACAGAG CACATTGAGT
 CTGTGGTCAT CGTGGTTCIT CTATCTTCAC TGTCACCTGT ATCCTGTAC ACATACTCAG TTCTTAATTG TAAGCTCAAT
 TTTGGTATTA GCAAAGCAT CTGTCACTTT TTCTCAATT ACTCACACCT CTCTTGCCCT AAATAAAACA AAGAAACAAA
 GAAAACAAGT GTGGTGTCT TACACGTCTC GGGAGTTCCT CGTCACTGAC TTTATATATA TANAANAAAG AATGCACATG
 CGGGCCACGT TCACAGATAG ACAGATTCAC CCGAAATTGA GGAATGAGGG GCCTTAAAGG CTGCCGANAA NCAAAATGGG
 GTGGAAATTA GCAANCGTIG TTTTCGGTTC AATTNCCAAT TGTGCACTGG CTGCGTTGAG ACAAGNCCAT CTTCCAATTT
 CC

SEQ ID NO:529: (Length of Sequence = 412 Nucleotides)

CTCTCAGACA GTATCTCTCT CGAAGCAGGA ATCCTAGTAA ATCTCATCTG CGGCATGCGA TTCCTAGTGC AGAGAGGGGA
 CCTGGGTAT TAGAAAGTCC TTCAATATTT AACTTCACCTG CAGATCGATT AATTAAATGGT GTCCGGAGTC CACAAACAAG
 GCAAGCAGGT CAAACTAGAA CACGGATTCA AAACCCCTCA GCATATGCCA AGAGAGAGGC TGGGCTGGG CGTGTGGAGC
 CAGGCAGTCT CGAATCTCT CTGTGTTTAG GGAGGGGAAG GAAGAATTCC TTTGGCTACC GGAAGAAAAG GGAGGAGAAG
 TTTACAAGCA GCCAGACACA GTCTTCAAC GNCACCAAAG CCTCCGTGCG CAAGCTTTCG AGCTGGGGGC TTTTCCAGCT
 TTCCCTCCAT TA

SEQ ID NO:530: (Length of Sequence = 301 Nucleotides)

ACTTTTTAAT AATAGTCATT TAAAGTGGGT GAGATAATAT CTCATGTGG TTTTNAATTG CATTTCTCTG ATGCTTAGTG
 GTGTGAGCA TTTGTNCATA TAACINCTGG CCATTGTGAT GTCTTTTTTT TTTTTTTTTT TTTTTTTTGA GATGGAGTCT
 CACTTTGTCA CCCAGGCTGG AGTGCACTGG CGCAATCTTG GCTTACTGCA ACCTCCACTT TCTGGGTICA AGTGATTCTC
 CTGCCTCAGC CTCCCAAGTA GCTGGGATTA CAGGNGCCA CCACCAAGCC CAGCTAATTT T

SEQ ID NO:531: (Length of Sequence = 312 Nucleotides)

CAGATGAGAC CAGGCTTGA CAGTGGGGC AAGTCTTACC AACCTGCACA GCACATCCAG CAGGCAACT GTGGCTCAGC
 AGGTGCCAAA TGGAGCCCAT GGGCAGAAGA TGCCACAGC GTTCAGATG TGTGTGGTCT GAGAGATAAA AGGACACAGA
 ACAAGATGAC TGTGCAAATA GCCAAGTGGT GGCAGAAGTT CTGCATTTCC AAGAGATGAT CCCTCAATA ATTTGACGAT
 ACTAGTTGGC CAACATGCTC AGAGAAAACA GNCCTATCCA CATCTGGAGC CTCATTCTCT CTCAGGATCA TT

SEQ ID NO:532: (Length of Sequence = 313 Nucleotides)

GCACAACCTCT CGACCTTGG GAGCAGCCAG GGAGGAGTCA CTGTCCAGC CCCCTGGCT AGGCACAAAG GGGTGGGAGA
 GACAGCTGGG CCAATATGGT CTATTACGC CTGAAACCCC GCCGAACCAC CCTTAACTCT GCCTTCAGGC ATATCCCCC
 ACGTCCATGT CCAGGAGCCC CCTACTGTG CTGGTCATCT GTGGCCGGG GAATAATGGA GGAGATGGTC TGTCTGTGC
 TCGACACCTC AAACCTTTTG TGAGTATGTG GGGAGGGGCT GTGGGGGAGG AGGGCGTNAG GGCTCTGGGA TCT

SEQ ID NO:533: (Length of Sequence = 378 Nucleotides)

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GTAATTCCAT GTGGCTGACT GGGTAACAGA TTTGAAGGGT ATCACAGACC TTCATGTTGT AGCTCATCGC AGTGTATTGT
 TTGTTGCTTG TCTCTGCTC CCGTTGTATT GCCATCCTCA AGGGCAAAGA CTGCATCTTT GTATTCOCAG CTCCTAGGCC
 TGAGTCAGGC ACATAGTAGG AATTCAGAAA GTATGTTTTG GATGTAACAT TCCTCCTTTT TCCTGGACAA AATGGCCTTT
 TGTCCGGTGC ATTGTCTTTT CCATAGAGGA GGGGTGCGG CAGGATTGTN AGATGACTGT GTTTGAATCT TCAGTTAGCT
 AAGACAAGGA TACGTTTTT CCATGGTGCA AATCTAAAGG GTTCTAGTGA GGTGGTTC

SEQ ID NO:534: (Length of Sequence = 374 Nucleotides)

TTTTTTTTTT GTCCAAGGTT TATCAAATTA ATTGATTTTG GGGGGCAAGA TAAAAATTTT NATTTGATTA ACTTCTCTA
 TTGGTTTTTG TTTTCAATTT CATTTATTTT TTCTTTTATC TTTATAATGT NCTTACATCT GCTTGGTTTG GGCTGGGCAC
 AGGGGCTCAT GCCTGTAATC CCAGTACTTT GGGAGGCCAA GGTGGGCAGA TCACTTGAGA CCAGGAGTTT GAGACCAGCC
 TGGCCAACAT GGCAGAACCC CGTCTCTGCT AGAAATATAG AAATTGGCCA GGTGTGGTGG CCAGCACCTG TGATCCTAGC
 TACTCGAGAG GCTGAGGCAG GAGAATGGCG TGAACCGGG AGGCGAGAGC TTGC

SEQ ID NO:535: (Length of Sequence = 433 Nucleotides)

TGCGACTGA TTCCAAGTCC CCAGGAGGGC TGTGAATGCT AATAGATATT TGGGGTTTAT CTACATGGAT AAATCAGAAT
 TGTTAACATT ATTTATAAAG ATAATACTTA CATAATTTN AAATTCACAA AGATTGTTTG GCTTAATGAT TTCTAAATGT
 ATGCAATATA ACATTAGGCG GCTTTTATTA ATTCTATTTA TGTAAATGGAA AAGCTCAATT CAGCAAAAAA CAGATCTGAT
 GGGATTTGGT TATTCTCTAC CTGATCAGAA CAAAGCCTTA CTTTACATTC CTGACTACCG ATTGGCTGAG GGATTGTCTA
 ATAGAATGGA GCTTTCTTTT GAGCGGTATC CATGTGTACA AAATTGGGCT GCTTTACCTG TGACCCACCG ATTGCTGGAG
 GAGCTTGA AA ATGTAGTCAG CCGTTTCTTT TGG

SEQ ID NO:536: (Length of Sequence = 438 Nucleotides)

GATGAATTAA GAGGGAAATT TATAAAGTAA AATCTTTAGC GCTGTGATC AAAGAGTTCC AGGCCGGGCG TGGTGGCTCA
 TGCCTGTAAT CCCAGCACTT TGGGAGGCTG AGGTGGGCAG ATCAGAGGT CAGGAGATCA AGACCATCCT AACACGGTGA
 AACCCCATCT CTAATAAAAA TACAAAAAAT TAGCCGGGCA TGGTGGCAGG TGCTGTAGT CCCAGCTATT TGGGAGGCTG
 AGGCAGAAGA GGAATTCCTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCCGCCACCG CGGTGGGAGC TCCAGCTTTT
 TTGTTCCCTT TAGTGAGGGT TAATTTGAG CTTGGCGTAA ATCATGGGTC ATAGCTGTTT TCCTGTGIGA AATTGTTATC
 CGNTCACAAT TCCACACAAC ATACGAGCCG GAAAGCAT

SEQ ID NO:537: (Length of Sequence = 316 Nucleotides)

TAGTAGCACT AAAGCCCCGT TTGGTCACTA CTCTCACCTA GGTGAGAACC TGACCAAAAA TGTTGAATTA TTAAACAAAA
 TGATGGGAAG CCAATGINCT GAACTGAGC TCTGCACTA GGGCCCCACA GACCAAAATTA AAATGGAGTC ACTAGTGCTA
 AATGCTTTGG AGTCAAACAG AAATGTTAAA GAAGATAGAT CCCAAAACAG AGCAGTGTIT TATTTTCTC CAGAAAACAG
 GAGATTCCAG CATAATAAGA AAGTCTCTC TGTGTAAACC CTTACAAAAA AGTAACCTGA AGTAACCAAT TTTTTT

SEQ ID NO:538: (Length of Sequence = 303 Nucleotides)

ATCTTCATGG GCGTCTTAAC TGTAACAAAA ACCCCACAAT TTGAACAGAA GAACAGAAGT ATCTGGTTAC AGAAGTGCAT
 TCATACATTT CACAAATGTT TCAGTATCCT CTCTCCCCG ACCCCAGCAT GAGCTTTAAT TGGATGTAAT TATTCTTTCA
 CCAGCATGCC CATGAAGNG CTAAGGAAAA CATTTACCAA GTCTGTTTCA AAATCTGTCC TTGGCATATC AAACTTTTTC
 TCTTCTTTT TCATGCTTTT TTTTAAAAA AAAACAGGA GAAAGCGAAT AGAGAGGAAA GAG

SEQ ID NO:539: (Length of Sequence = 362 Nucleotides)

CATGTCATAG TGGCCTGCTC TCCTAACACA GCACAATTIA GGGCATATTT TCATGATGGT CTATCACTGG ATTACAACAC
 ATCTCTTCAT TAAAGTCTTG GGAAAGAGGC TTCAACTTIN CTGIGTTGAG AAAACTTCAC AGGTGTGTAA AGTTTGATCA
 GTATGTATAA TATATTTINAT TACATATATT TNAITTTINAT TTTTCATTTT TTTCATACA TAGCAGGTGT ATATACTTAT
 GGGTTATATG AGATATTTTG ATAAAGGCAT GCAATGTGTA ATAATCACAT CAGGGTAAAT GCAGTATCTA TCCATCACC
 CAAGCATTTA TCCITTTGTGT TACATACAGT CCAATTACAC TC

SEQ ID NO:540: (Length of Sequence = 416 Nucleotides)

CACCAGGGAG AACCAATACA ACAGAAAAA AGCAGAGAAC AGCTATGTGT CCTGCCAGGT CTACCAAAGA TAGTCATCCA
 AACATGAACA GATGAGAAGG CTGTTTTTCA AGAAGGTGAA AGTGACAGAN TATTCATGA ATCTGAACAC ATGAAGATAC
 TGAGACACCA GTAGTTCAGC AATAAGTGA GAGAAAACTA AGCAAATGAG AAACCTTAGGA ACAATTATGC AGCAAAGAAC
 AACTGGATAA GCTGAAAAGT GTTTAAAGAT GCTGCCGTAA AACTTAAGTA TCACAATCAA ATTCTGTATT GTAAAAATAG
 AGGTATGGGA AGGGTACANG TATGTTTGTG GGGCAAATG GTGAGGAGAG CTTAAACCTT CTCTTCCTT AATGAGGAAT
 TAAATAATCC CATTAA

SEQ ID NO:541: (Length of Sequence = 341 Nucleotides)

GAAATACTTC CAGGCCCTCG AAAGGCCATC CTTTGGACAC ATGTAAAAAG CTGTCTTGTG GGCCCGTTAT TCCCACTGAC
 CCGTCTGAGT GATCACCAG GAGCGCGCG GCAGCAAGCA GAGCTCACCG GATTTGGGAC AAGGATTITA AAGGCAGCTA
 CAAAGCTGAG CTCTATTTCG TGATGATAGT CTCTGTTTCA CTGTTTAAA TGAAGTCTG ACTCACCATG GTAATTTTNC
 ACAAATTAAA AACACATTTT GGGTGTGCA ACAGTGGTTC TCATCTTTCC AGGCAGGCAG ATTATTTTAA TGCTGTTTAT
 ACAGGGAATT GGGACTCTCG G

SEQ ID NO:542: (Length of Sequence = 334 Nucleotides)

TGTTGTTC CTACCTTAAC CAATACCTCC TGGAAAAAG AGGTATGGT ATAAAAATA ACCATACCCA AACATTCCCA
 CAACATGACC TTAATAAGCT GTGACAGT AGATTATGGC AGAGGAAAGA AAATTGACTT TAGAATTAGA GAAACTTAGG
 TTCAAATCTC AGCTCTGTC TGCTTTGGT GACCTTCAGT AAGTCCCAT TNCCTCATCT GTAAATGGG AATAACATCT
 ACTCCACAGC ATCATTAGAA AGATTAAATA GTGGCTGGGC ATGGTGGCTC ATGNCITGTA TCCAGCACT TTGGGGAGG
 CTGAGGTGGG GCGG

SEQ ID NO:543: (Length of Sequence = 350 Nucleotides)

ATTTGTTTC AATTGACAAC ACCTCATTA TTGTAAGCCC AGTGACACTG CTGCTGTTT CAAGTCACIT TTAATTACA
 CAGTGTCTAC TTAATCTTA AAGCAAAAT AAACATTGGA CTGTTTACA TTCAAGCTA CAATATGGA CCATTGTATT
 TGGAGGAATG AGTTAATAT GCATTGTAAA ATAAATTAG GGGGTACTTT GCATTACAG CGCTTATGT AATTAGGTTC
 AGTCAACTGT AATGTTTCAG GTTAATGCT TCCATGGATG TATGCTGTGT AAATAGTGAA CTTACATATC CCTTAATACA
 TCTGAATTAT TACATAAATC CTTAATATTA

SEQ ID NO:544: (Length of Sequence = 328 Nucleotides)

GGGAGACGAG AACTCTTGAG ATCCGGGGTC ACCTGTNAGT CGCTGGACCC AAGGGGAAG CGTCTTGATT CCTGGAGGAA
 ATCTCCGAAG TGATGTGTAA CCCTGTGTGT CGCTGCACT TCGGCCGCA CTGCTTTGG TTCAGTCCCC TGTTCTGTGA
 GGAGGCGGGG ATCATGTAA AGTGGAGCAC ATCGCTCCC GCTTGGACGC CTTTACCCTT TAAGTGTTC TGATTGATT
 TGGCTTTGGG TCTACCAAGA ATTCTAGTCA GTTAACTAGC TTTTAAAGCC AGGTTCCTGA ATTTGGTAGG CATGGACACT
 CCCAGTAG

SEQ ID NO:545: (Length of Sequence = 342 Nucleotides)

GGGCTATTAC CTCTGGGCAC TGGGAAACT GGGAGACGGG ACAAGGGGTG ACCAATTTTT CAGTGTATGC CCTTTTCGAA
GTGTTAAACT TTTTTTTTTT TTTTTTGAGA CAGGNTCTCA CTCTGTGCCC CTGCTGGAGT GCAATGGTGA GATCGTAACT
CACTAAAGCC TCAACTTCCT CGGCTCAAGC AATCCTCTCA CCTCAGCCTC CTGAGAAGCT GGGACTACAA GTNTGTGCCA
CCATACCTGG NTAAATNTTA AAGTTTTTGT AAAGATGGGG GTTTTCCGAT GTTGCCCAAG CTAGTCTCAA ACTNCTGGGC
TCAAGTGATT TGCCACCTT GG

SEQ ID NO:546: (Length of Sequence = 280 Nucleotides)

CTCGTAATGC CAGCATTTTG GGAGGCTTGA GGCGGGAGGN TCCCTTGAGC CGAGGAGTTC GAGATCAGCC TATGCAACAC
AGTGAGACCC CTATNTCTAT TTNATTTAAA AAAAAAAAAA AAAGGGGGTC ACGTTTACTG CCACCATCCC AGGCAGAAAG
ATGAAGCCTA GAGCCTCTCA CTGCTTCCTA GTGGGTCTTG GGTGTAAAT TGCTGTCTTG GGTATATTTT TTGGCAGAAA
GCATCTGGCA TCAGGCACTG GTTCTCAAAG TCGGGCCCCC

SEQ ID NO:547: (Length of Sequence = 298 Nucleotides)

CTAAAGAGTT TCACATAGTG GCTCAGTCCA GCCTTGTTGGG GATCTTGCCG GGGCCTGGGG CCGGTGGTCC GGGGCCTAGG
GGGATGCCIN ACCAACAGAG GCTCTNCAGG CTCTGAAGAT AAGCTGAGGG CAACAGTGA CAGAGGGGGC TGAACCTGCC
TCAAGGAGGC TCTTATTCAA GAGCAAGTCT TGCTGGCTTC TNCAGAGGCT GGGGACCAG TGGCCCTTIG GCCAGCCAGG
ACCAGCAGCN CTNACCACCT GCTGAGGGGC AGTTTGGGTC AGGGGGGNCA CATAGAGG

SEQ ID NO:548: (Length of Sequence = 311 Nucleotides)

GAGACAGGGC TGTTTCCTGC ACTACACTGG TCATCTGACC AACTTTCTGC AATGCTAAGA AGGTATCTT TGACCAAACA
GCAGTCCACA TACAAGTTTA AAAGGGGCCC TGTTTATGTA GGAACAACAC TGAGGTGGTG CGTAGCAGGT ACAAGACGCC
CAAATATTTC CAGTTTATCT TACGGCTGGA CTCTATTCT CCCACACTGT TTCTAAAGA AGGTCCACAT TATTTTGGNT
ACTAGCCTAG TTTAAGTGA GATACTGTGG GCAACTTNAA AGAAATGACA TCAGGCACAC AGGCTGAGCT T

SEQ ID NO:549: (Length of Sequence = 387 Nucleotides)

TTTATTTTGG TGTAAGACA GGAAGCTGGA AAATACACTG TATTTAAAT TTNCTTGGTT CCCCCTCACA TTGTGGAAAC
CCCCCCCC CAGAGCTAAT CTGTTCAAAC TCAAATACIT AAAAAITACA GCAGCCAAAC AAAAGCATGG GGGAAAAAAA
AACAAAAACA AAAACCAGAT GGAGAAGGTA GCCTGGGCCA GTAGTGTAC TTGGTGTGGA CGACTGAGGT GCTGAACAGG
AGCTTCTGTT TCTGTTTTTT TCTTTCTTT CCTCCTTTCT CTTAGAGAG GGGATCTNGA AGTAGCTGGG TGTGTCCAGT
TTCATGAAGG CTGCTTCAAT AGCTTGGCTG AAGGAATTTT GAAAACINGG CACAGGAACA CGGGTTT

SEQ ID NO:550: (Length of Sequence = 377 Nucleotides)

CACCCCCAAC TCTTCACCAA GTAGGGGCCC TGGCTTGCAA TTGCAGAAGA GCTTTCCCAT CCCTGGGTGA GCATACCTAC
TGGTAGTGGC TCCGTGATTC CCTGGGGAGG GGCTCCCA GGTAAACCAAC CAACCTGTG CTACTGCTAT GACCACAGTT
CTGCTTCTGC TGCCCTCAA CTGGGGAAGA AACAAAGAGC CTGAGGGCTT TACTCACGCT TCTAGCACTA CGCAGTCACC
ATATAAGAG GAGCCAGTC TCTCTCCTT GTGAACCTT GACCCCCAAC TCTTCACCAA GTGGGGCCCC CAGCTTGGGC
CAGCAGCACA GTGGCCCCAA CCCTAGGCT GAACATTCCA GTAGCAGCTG CTCGCG

SEQ ID NO:551: (Length of Sequence = 320 Nucleotides)

GAGTTTNTGG TGAGCGAGA TCAGCCATT GCACTCCAGC CTGAGCAATC AGAACGGTCC GGCTCCTGTT GCTGAGGAAG
CAGCTCTGGA TGACCTTCAT GATGAAATTT GCAGCCTGCG GCTCAGTCAT GTTGGGGCTA AACCTGTGCC TGGAGGAGAG

GCTGTGTCAG GGCTGCCATG GGCAGGGCCG TGCTGGCTCC CTGGCCAGT GGGAGGAGGG TCTTCCATGG GGACGGACTT
CAGCTGAGAG CCATGCCCTG GGAAATGTAC CTTTGGGGTC CACATGTTGG AAGATGGGGT GCTGTGAAGG CCACACC

SEQ ID NO:552: (Length of Sequence = 334 Nucleotides)

ACAAACTGAC AAGAGAAAAC AAAGAATTCT TTGGTGATCT GGACACGCTG ATGGGGCCTC TGACCCAGCA CAGCAGCATG
ACCAATCTTG TCGCTACGT TCGCAAGGA CTGINTTGGC TGCGCATCGA TGCCCACTTG TTGTAGTGGG TGTCTCAGA
TCTCTAGCAT CAGACCCAT CACTCTACCT CTACCAGCGC ACTGATGGTC ACTGGTGGAA CTCCACTCAC TGGGGAACGT
TCTCTTGGT TATGTTTGT TTTATGCTC TTTGTATC TGTAAAAAC AGAAGTCATT GTAAGTTGAC ACTACAACCT
AAGGGCAGTG TACG

SEQ ID NO:553: (Length of Sequence = 371 Nucleotides)

GAAAAGGGGA AAAATCACAA TATGTGTTCT AGACAATATT GGTITAGATT TTTTAAAGAT CTAAAATTCA ATTATGGAAA
GCCAGCAGCC TGATCCAGTT ACTGTGACTA AAGCAATTGT CAGACCATCT CTAGTCAACC CCTTATGGGT TTTGCAATGT
GTCTACCCCA ATTTTGGATC AGGAGGGGTC AAACAGAAAT ACAGCAATGT GATTAACTG CTCCTTTGCA AACAAATATGA
AAAGGTTTGT NCTTTCAAAG TAGATTCTAA CAAATCGTCT GCTCACTGTG GGGTAGCAAA GNGAGAAAAG CAAATCTTTC
TATTAGTCTC AAGCAAGTCT TCAGATTAC ACACAATCTA ATGGAGGCAT C

SEQ ID NO:554: (Length of Sequence = 331 Nucleotides)

TTATGACTTT TTCAATAAG GCTATTGTAT CAGCCTGINC TCTCGCTGCT AATAACGACA TACCCAAGAC TGGGTAAATTT
ATAAAGGAAA GAGGTTTTAT GGAATCACAG TTCCACATGG CTGGGGAGGT CTCACAATCA TGGCGGGAGG CAAAGGAGAA
GCAGAGTCAC ATCTTACATG GCAGTAGGCA AGAAGAGCAT GTGCAGGGGA ACTCCCTTT ATAAAACCAT CAGATCTAGT
GAGATTTATT CACTATCAAT GAGAGGCAGC ATGGGAAAAA CTTGCCCTC ATGATTCAT TACTTCCAT TAGGTCCCTN
CCACAATACA T

SEQ ID NO:555: (Length of Sequence = 305 Nucleotides)

GCTGGGACTA CAGGCGCCCG CCACCACGCC CGGCTAATTT TTTGTATTT TAGTAGAGAT GGGGTTTCAC CATGTTGGCC
AGGATGGTCT CGATTTCCCTG ACCTCATGAT CTGCCCGCCT CGACCTCCCA AAGTGCTGGG ATTACAGGCG TGAGCACCGC
GCCAGCCCA ACACATGGTA TTTCTGTCA TTTTCATTA GTCTCTGGT TGCTGTGTA TGGTCTCAGG CTTTATTTAC
ATTTCTCCGA TTACTAACAG ACTTGAACAT TTCAGCACAC TTTTAGGTT ATGAATAAC CCTA

SEQ ID NO:556: (Length of Sequence = 318 Nucleotides)

CTTTTIGGT GATINCTAAG CTCTGTTTN CTTATCCTAT ATATATATGT GGTGGTTTT NATTTTAGGA TTTTAAGGTT
ATCCCTAATA AATTTTGAGA TGTTTCCAT AGCTAGCCTG TTGAGATCTT TTATATCAA AAGTTAATAT CTGTGGATTT
NTAATCATTC TTTCTACATA TTTAACAAAG TCATTAGCAA AATATTGAAC AAAACCTGTT ATTCATATCC TTAGATACAG
AACATCAATA TCCTGAGATA CAGTACATCA TCAAAATGIG GTCCCAAAT GNGCAGCAAT TAGCATCATG TGGGAGCT

SEQ ID NO:557: (Length of Sequence = 349 Nucleotides)

GGAAGCAATG TGCTTCTCT TAACAGAGAT ACTGCACTAT TCTCTATGTA TACTCACTTG ATGGCATGGT ACATGTCCTC
CAGGATGTCT TGCTCAAAGT CCTTGCTCC ATTCACACCT TTCAGATTTT TGCGAAACTC CTAGAGACAG GCCAGTAAGT
TTTTTCCCT TGTTCAACA CTGAAGCCCC ACCTAAGGAA CTCTTGGGT TTCAGTAAAT AGGACTTAGG AAAAGGTAAG
CGAAAAACC CACTTCCCA CCCCAGTCCC TTTTCTAGGT TTGGGCCAGC CTTTCTTGA TTCCCTTGA CAGAACCCCA
TCCATCATGC CCACTGGAAT CCTATGTC

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SEQ ID NO:558: (Length of Sequence = 279 Nucleotides)

GGGCCAGGCG CTGTGGCTCA CGCTGTAAAT CCTAGCACTT TGGGAGGCCA AGGTGGGCAG ATCACCTGAG ATCAGGAGTT
 CAAGACCAGC CTGGCCATGT TGAAACCCCA TCTTTACTTG TAATACAAA ATTAGCTGGG CGTGGTGGTG TGCGCCTATA
 ATCCAGCTG CTGGGAGGC TGAGACAGGA GAACCTCTTG AACCCGGGAG GCAGAGGTN CAGTGAGCCA AGACTGCACC
 ACTGCATTCC AGCCTGGGCG ACAGAGTGAA ACTGTGTCT

SEQ ID NO:559: (Length of Sequence = 278 Nucleotides)

GAGAAAGCCA AGAGCCATCT GGAGGTGCCG CTGGAGGAGA ACGTGAACCG CCGCTGCTG GAGGAGGGCA GCGTGGAGGC
 GCGCACCATC GAGGACGCCA TTGCAGTGCT CAGCGTGGCG GAGGAGGCG CCGACCGCA CCCAGAAAGA CGCATGCGGG
 CAGCCTTCAC AGCCTTTNAG GAAGCCAGC TGCCGGGCT CAAACAAGAG AACCCCAACA TGCGGCTNTC GCAGCTGAAA
 CAGCTCTTCA AGAAGGAGTG GCTCCGCTCT CTGACAA

SEQ ID NO:560: (Length of Sequence = 304 Nucleotides)

CAAATGTTAT TGGAAGTTAT CTAGAAGGCT CAGTAACCAG AACTTCCTTT CATTCGTCTT TTCTTTTCT TTTTTTTTTT
 CTTCTGAGAC AGTCTGGCTC TGCTCCAG GCTGGAGTGC AATGGTGTAA TCTCAGCTCA TTGCAACCTC TGCTGCCCGG
 GTTTGTGCAA TTCTCTGCC TCAGCCTCCC GAGTAGCGGG ATTACAGCA CGTGCCACCA CACCTGGCTA ATTTTTTTTT
 TTTTTTTTTT TTGTATTTTT AGTAGAGCCG GGGTTTTTAC CATGTTGGCC AGGCTAGTTT CAAA

SEQ ID NO:561: (Length of Sequence = 323 Nucleotides)

GATGGTAAAC ATAAACCCAA ATATATCTGT AATTACATTA AGTGCAAGTG AACCAAAACA GTTCAGATAA AAGACAGTAC
 CTATTTTATA GCATTATGAC TATCATGAGG TAATATATGT AGAGATTAGA GTACACATGT CATATTAGGA GGTGTGCAAT
 AAATGATACT TTATTTCTGAA GATTAACTA ATTCATACTT AAAAGGATCA AGAACTAGAA TATTAAAAA NTAGAATGTG
 AATGTTTCTG CAAGTTTGA TAAGAACAAG CCCATAAAT AATCTCTAAT TTGCTACATT TAGGGAATAT GGGTAATGAC
 TAC

SEQ ID NO:562: (Length of Sequence = 214 Nucleotides)

TCTAATNAGG CCTGCGTGC TGTGTCATCC CATGGCGGAA GAAGGAAGGG CAAGAGTGGG TGAGATTGTN AGCAGGAGAG
 AAGGCTGAAC TTCATATTTT AACAACCCAC TTTCATGATT ATNATAATCT TCGCATTTAT TTTTTCGGT CTCTTCATGT
 NCCTAACTT TTCTCTGGN TTTTGGTCTT TTGCTTCTC ATTTTATAGAA GCTC

SEQ ID NO:563: (Length of Sequence = 358 Nucleotides)

TTTTTTTGT GAGAAACAGA AGCTGAATAT CCTGATTTGA TTGCCCACAC AGGCGTTCAA TGGCTTAGCA GTGCTAAAGA
 TTTATTTTTA TTTTTTGGG CTCTGGGCTG ACATTGGAAA TTTTNCIGAA TGAGAAAAAC CATCTCAAC CACTGTTTTT
 TAACACTGAG TAACTTTGA AATTAACTTT TGCCACAGAC TTGAAATGT TTCTTAATGA ATTTGACCTG AAATTACAAG
 GTACAACAAC ATAATATGGT AAATTCATTT CAATAAAAAC TAAACTTAA GATTGTCAAG CTGCTTTATA TACTTNCGT
 GCTATGAGAA GTCAAAACAG CGCTGTATTG CCAAATCC

SEQ ID NO:564: (Length of Sequence = 405 Nucleotides)

ATGTAAGTGT TGTTCATAC ACATGTTTCC TTAGTCTTA AAATCTGGCT CATGGGGTAA AACTATTAT AATCTCCATC
 CTCAGATGA GGAAGTGAG ACTTAGAGGT TAAGTACATT TTAGGATAAA GTAGGTATT TCGATAAATG TTCAAATGT
 GTTCTGGTC TCTGAGGACT AACTCCAG GCTGCTGGG ATACAAAATA CCTTTCCTT ACCATAGGAG CACTTGGGTA
 GAATATTGTC AGAAACAATA AACTGGCTGA TATTAAAGT TCTCTTCAGC TCTGACATTC TATAATTTCA TTGACCTCT

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TTGCATTTAA TTATGTTGAT TTTCTTTCT ACCCCTTGCT TAGCTAAAAA TATACCCCTT CINTGTCCAT GGACAGGAGG
ATGGG

SEQ ID NO:565: (Length of Sequence = 196 Nucleotides)

CATCCACATC AGGCAAAGGC AAAGCAGGAC CTGAACCTCC CACCCCAAGC CCTACATCCA TGCAAGCCAG ACCAGACTGG
GTCAGAGGCT AGAAGGGGNC TCACAGGNTT GCCTGGGGAA GCCTCGGCC AAAACCTGGC CCTNGCTCCA GCCCAGAGNA
CCCACCTGGG CATNAGACTT GCGGCAGCGT AGGGGT

SEQ ID NO:566: (Length of Sequence = 275 Nucleotides)

TTGGAAAAA GAGAAAAA AATTCTGCIT CATTTACGAA TGTGCCAAA GGAGGCAAGT TTTCAACTGA AAACAAAACA
TAAAGGTCTA TGTGGATGCA GCCAAATGTT TCTCCATTTA GAAAATCATC ATAAAAGGTG GCAGCACTTT TTTTGCCTGT
TAACTATATT ACTTATAACT GGCTGCACCA ACATTCATC TCAATTTTGG GAGTGTTCCT TCTGATCAAT CCTAAAAGCA
ACACAATCAT TTTAGAGGTT GCAGACTACA ACAGC

SEQ ID NO:567: (Length of Sequence = 349 Nucleotides)

CGCTCGINTG TCCCACACAA ATGTTTAAGA AGTCACTGCA ATGTACTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA
AAAGATTCCA GTGCCCTGA AGAGGCTCCC TTCTCTCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA
TACGCTCTAT AACCTTAGGG GGNCTCGGG CAGGCAAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC
AATGCCACAC CTA CTGCTGTTA CCCCTTGAGG GCATTTCTCC AGACAGAAGC CCCTTGAAGC CTAGGTAGGG CAGGATCAGA
GATACAACCC GTGTTTGICT CGAAGGGCT

SEQ ID NO:568: (Length of Sequence = 368 Nucleotides)

CTGGTAACTT CCGATTTGGN TTTCCCGGCC TCANCCCTTT CCCAGGGCTA TTCTCTCCC ACCTGCTGCC AGGCCTTTCC
CTGGCCATCC TGTGTTAAAT GTCATCCCGC CCTACTGTT ATGTTCTCCA CAGCACTGA ACAGACCCA ACATGCCTTT
TCACTTCAAG GTTTATCTT CTATTAGTTT TCCAGAGTC TGCTTCCCTA GTGTCCATCT CCCCCTGCTG AATGCCTCTT
GAGAGCCAGT GCTTGTTATT TGGTCCTNGT GGTATGGGCC TGGCACATAG TAGGCAGTCA GCAGATATTT ATGGAACAAA
CAAATGAATT TGTGTGACIA TAGTTCATTG TTCATAGTTC ATTCATAG

SEQ ID NO:569: (Length of Sequence = 328 Nucleotides)

TGTCACITAA TGCACAGCTG GGGCTCAGGA CACAGCTTTG CACACCCTAA GINTCAATA AATGCTAGCT CAGGGCAGAG
CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCCTAA GTACTCAATA AATGCTAGCT
CAGGGCAGAG CTTTGCATAC CCTAAGTCT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCCTAA GTGCTCAATA
AATGCTAGCT CAGGGCAGAG CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGNG ACAGAGCTTT GCATACCCTA
AGGTGCTC

SEQ ID NO:570: (Length of Sequence = 313 Nucleotides)

CCCTAAAAGG CAGAGTGCTT TCTTACCTCC ACACAACCAC GCTAGCTCTA TAGCAGTGGT TCTTAACCAG ATTGAAATGG
CTGAAATGAC AGACATATAT TTCAGAACCT GGATGGGAAG AAAGCTCAAT GAGATAGAGG AGAAGGTTGA AACGCATCCA
AGTAAAGCAG TAAAATGATC CAAGAGTTGA AAGATGACTT AGCCATTTTA AGAAAGAACC AAACAGAACT TCTGGAAATA
AAAAAAATC ACTACAGGAA TTTTATAATG CAATTGGAAG CATAAATAAC AAAATAAACC AATCTGAGGG AAA

SEQ ID NO:571: (Length of Sequence = 338 Nucleotides)

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AGGAAAGCAG GGGTCTCAAT TCTGTACGAA AGAGGAGGGT GTTTTACTTC CTGGAATTAT AGAGGCCAGA GGTGTCTCTT
 TTCAATTITA TTGGGAAGGT TTATTTTAAT ATGGACTTAG AAATAAATAA CTTATTAAAG TGAAGGTTCA CCTGGAGCCT
 TAGGCTGGCT GCTAAGTGTG AGTCTGGGCT GTTGAAGGGA CTGINCTGTT CINCTGGGTC TCTGTAGGAG TTTGAAGGAG
 AAGACTGGCC CCAAAGGGTG TTTGAACAGG TTAGATGTGC CCATTGGTGA GAACCTACTT GGATAGGGAG AAGGNTCTA
 GGGCGTATCC ACAAACTT

SEQ ID NO:572: (Length of Sequence = 375 Nucleotides)

CTATTTCAG AAGTGACAGC ACAAGTCTGA GTTGCTGTTT GGTCTGGTGA CCTCAGACAC ACTAATTTGA ATTGAAAGCT
 AAGAGTAAAA ATTINCTGGT TACAGGCGAG TCATACTCTT GCAAGTAGTT AGCAAAGGGA GGCCCAAATT CTCAAGGTTG
 TTGATGGGGA ACTTGCCACT AAGAGAAGGC AGAGAGGTCC CTAGTGGGTA TATTINCTGC CAAGCCACTT GCCAAAGAAG
 AGGAACCACA GAAAGAGAGA CATCATGACC NGGAGAAAAA TGTGACTAGA CATGCTAACC TCCAGGINTT TATATATGAC
 TTGAGTCTGC TGTAATTGGC AGCAGAAATC CAAATTTGT ATGGGTAGAC CACAA

SEQ ID NO:573: (Length of Sequence = 396 Nucleotides)

GAATCCCCAA AGGAGAGGAG CTAACCTATG ACTATCAGTT TGATTTTNAG GACGATCAGC ACAAGATCCC CTGCCACTGT
 GGAGCCTGGA ATTGTGCGAA ATGGATGAAC TAAGAAGCTT TGAGGCTACC AGGCAGGGGA GTCCCCCTAC CCACAANCTC
 TTCCTGAAA GNAATNGAGG GGAAGAGAG GTAGCAGCCA GAGCCAGGAC CCAGGTTTGG GGCTGCGGCG TGACCCGGAG
 CCCCTGGAGC AGGAGGCTGG GGCAGAGGGC CCTAGGCCAA GCCCACCTG GGCACCAGGG ACAATCCTCT TCCCCACCAC
 CGGCCCTCAG GCTGGCATCT CTGCCCCCAG CTTCCAGGAG GGGCCAGACA GAAGCAGCCA TTTGGCATCT CAGGTT

SEQ ID NO:574: (Length of Sequence = 373 Nucleotides)

CTAAACAGAT TTAACCTCCT CCCAGCAATC CAGATTAAAT TAATATGCTT TCTTAACGGC ATTCGCAATT TMTCAATAA
 GCAATGAAC GTCCATCCTT CTCGATAAA TTAGGGCAAA AAAATTCATA TGTTTAGGGC ATAGGGAAGG AGGAGTTGTT
 GGCTGTAA AAAAAAACA AAAAAAGTA CCGCAAATGG CGTTTCAAAG TCTAGACATC TTCATCATCA ACACAAACAT
 TCCTCTTAC AAGGGACCT CAAGTAACCT TAGGCTGGAG GACCCACCTG CGTATGTTTT TMTCTCATT CTTCTTTAC
 CTTCCCTCCA GGCCACCCAA CCCACATTCA GTGGCCCAAG TCACGTGGGG TTT

SEQ ID NO:575: (Length of Sequence = 431 Nucleotides)

GCCCCATT A CTTCTTTGCT TGCTACCACA ACAAGGTATA TTAGCCCTTG AAATTAAAGA TGTGCTGTC CCAGTTGTGC
 TTGCTTCAC CTAAATGCAT ACAGTCATAT TCCAAAAGAC TATATATTAG TGATATCTAT ATAGTTCACC CTTTCATATAC
 ATGAGCTCCC GTGTGTGGAG TGAATAAATT GCAGATATAA AATATTGGG AAAAAATTTC ATGTGTACTG AACATGTATA
 GACTTTTTIN CTTGTATCA TTTCTAAAT AATACAGAAT AATAACCACT GTTTACATAG CATTTACATT GTGTTAGGTA
 TTATAAATAA TCTGTACATA ATTTAACTG TACAGGAGAA TATGGCATAA GNCATATGTG GATACCACAC CATTTTATAT
 CAAGTACTTG AGGCCTCTGC AGATTGTGGT G

SEQ ID NO:576: (Length of Sequence = 410 Nucleotides)

GATGCAACA GCCCAAGGA GGGAGGTGGA AAGGCCAAGG GGCTTGCCCT CCTGCAAGCG CGCCTGTAAA CAAGTCCCCG
 TGGGGTTTTG GGAGGTGCGC CCACATCTAA GACTGTGCGC CCTGCACTCC CTCTGGATGG CTGCGGAAT TTGGTCTTCG
 CTGATCACCA ATTCTGGAAG GGTGGAGAGA CAGTTGGCTG GACAGCTGCC TGATTGCGCC ATGACCCCTC ACGGGTGTCT
 GTGGGCCAAC ACCAAACGCC AGCCTGCTCT GCTGGCAGGG CTCTACCTG CACAGTCCCT AGGGCTGCAA GAGCAAATGG
 GGACCTGGC TNCGGTCTCT TNCAGGGCC TTGGTCAATG ACATCACCAC TTTCTTAGGA CAGCGTCTTG GGGAGCTACC
 GGAACCTTCG

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SEQ ID NO:577: (Length of Sequence = 405 Nucleotides)

GAATGAAAT GGCATATTG AACATAAAT TAGGGCAGAT TTTTACTACT TTTGAAAAA TGTGGGAAA TATTTCTGTA
 TGAAACGTAA AACAACTTTT AATTTTTTTT AGAAGTTGAG AGGATTCTAT TTGCAAAGC TGTATTATGA AGCTAAAGAA
 TATGATCTTG CTAAAAAGTA AGTACAACT GTAACATGTA TTTTTTTTTT AAAATCAATG CCTTTNCTCA TTNCTTCTT
 TGAAATAGGT AAAAATATGT CCTTAGTAGT TCTTCCTAAG TGTATTCTGG AATAAGGGAT TTATCACTCA GACTGATGCT
 AAGGACCAGC CTAGATTCCA TTGAGATTGA AACCGTAATT AGTGTTTTCT GCATGCTGCT GCTTTATACC AAGGGCAAGA
 AATTG

SEQ ID NO:578: (Length of Sequence = 406 Nucleotides)

CGCTACAGGG GGGGCTGAG GCACTGCAGA AAGTGGGCTT GAGCCTCGAG GATGACGGTG CTGCAGGAAC CGTCCAGGC
 TGCTATATGG CAAGCACTAA ACCACTATGC TTACCGAGAT GCGTTTTTCC TCGCAGAAGC CCTTTATGCA GAAGTACACT
 CAGAAGAAGC CTTGTTTTTA CTGGCAACCT GTTATTACCG CTCAGGAAAG GCATATAAAG CATATAGACT CTTGAAAGGA
 CACAGTTGTA CTACACCGCA ATGCAAATAC CTGCTTGCAA AATGTTGTGT TGATCTCAGC AAGCTTCAGC AAGGGGAACA
 AATCTTATCT GGTGGAGTGT TTAATAAGCA GAAAAGCCAT GATGATATTG TTAGTGAGTT TGGTGATTCA GCTTGCCTTA
 CTCCTT

SEQ ID NO:579: (Length of Sequence = 374 Nucleotides)

GTGGGCTGTC TCTGGAGTCC ACATTCTGTA ATATTATGCT GCAGTAAATA TTAATCTTGA GAACTAGGTG ATATGGTTTG
 GCTGTGGCCC ACTCAAATCT CATCTTGAAT TGTAGTTCCC ATAATCCCCA CATATCATGG GAGTAACCTG ATGGGAGGAA
 ACTGAATCAT AGGCGAGTTA TTTCTATGCT GTCCTCATAA TAGTGAGTTT TCACTATATC TGCTGGTTTT ATAAGGGGCT
 TTCCCCCCTN CCTTGTCTCT GCATTTCTCT TTCGGCCAT TATGAGAGGA AGGACATGTT TGCTTCCCCT TCTGCCATGA
 TTGTAAGTTT CTTGAGGCTT CTTGAGCCAT GCTGAAGTGT GGAATTTAAT TAAA

SEQ ID NO:580: (Length of Sequence = 396 Nucleotides)

CAGAATAAAC ATTTACTATT AGGAGAGTCA AATCATTTAT TTTCACATGA AAGAGATTAA GTAAAGCAGA ATCTTTGATG
 GTCTGCTGTG AATTCCTGCG AGTGATTGAG AAATTTCTGA AAACCACTTC CAAATCAATT ATAATATTAA GTAAACTTTG
 GCTTTAGGAG TAAGAGAGAG AAGGTCTGCG TCCATGTTGG GAAAGAATAG ATATGCCAC AATAATTAGT CTATTACTTG
 TTTGAAAAGG GTGATTTTCT CGTCATTICA AAGTATTAAAG CAAATAAGGA CATATTGAGT ATGTAATTCA TGGAAAANTA
 AGNAACTTCT TACAGTATGA TTCCTAAAGG ATTATGGATG CCATTATCCA TTTTGGAGTT GGTATTGAAG CTATAC

SEQ ID NO:581: (Length of Sequence = 449 Nucleotides)

CTGCTCCGTG GCTGTTTCAA AGACTGGGCG AAAGGCTGTC CGGAGGGCAG ACCAGGTGCC TTGCCGCAGA GAAAACACCA
 NAGTCTCCTG TTGCTCATA AAGAAGTTTT TGGGATGGGA GAGAATCCAG ACCATCTTGG GGCAGCCANG CCTTGCCTT
 CATTTTTACA GAGGTAGCAC AATTGATTCC AACACAAAC TCCTTCCCCT TTTTAAATG ATTTCTGTTT TAATGCCATA
 GATCAAAGGC CTCAGAAACC ATTGTGTGTT TCCCTTTTGA AGCAATGACA AGCACTTTAC TTTCACGGTG GTTTTTGTTT
 TTNCTTATTG CTGTGGAACC TCTTTTGGAG GACGTTAAAG GCGTGTTTTA CTTGTTTTTT TAAGAGTGTG TGATGTGTGT
 TTTGTAGGAT TCTTGACAGT GCTGTAAATAC AGACGGCAAT GCAATAGCC

SEQ ID NO:582: (Length of Sequence = 261 Nucleotides)

CCAGCAGGTC GTACTTGCAG TGGCAGGGTC CCGCAGAGGG CCGCGTCAGT GTGCTGAGCT TGGTGGCGGG CACTGGCTTG
 GACAGTGGCA TGACCGAGG GAAGTGGCGG CCGAGGGGCC TCAGGGGGCT GAGCACGTCC TTGCAGAGGG GCGGGAACGG

GTNCTGCTGG TAGTGGCCAA ANACCTCGAA AACATGGGC TNGCTCTTGA TGTACAGGTG GCGTTTATTT TCATGGATTT
ATACACACTG GAAAAGCCTC T

SEQ ID NO:583: (Length of Sequence = 399 Nucleotides)

CCCAGGCCAC CATTTAAAGC AGCCATTCCCT GCCAAAGAGC CAACATTGAG GCCAGCCGTT GCTCCAGCTA ATGTCTGCAG
GGCTCCAAGT GAGGCTATGG GGTGACAGA ATTACTGCTG CTAGAGCTAG GTGAGGACCC TGAAGTAGTG AGCACGCTGA
GGGACTGCT GGATGTAGTG AGAGCATTGG TACCACITGG TGTGTTCTGA NNTGCACTAG CTGCAGCAGC TAGTGCAGCN
AAATTCTGTA ACTGCATTGC ATTCAACCCT CCCATTGGGT GGAGGCTGCT CAGGGTGTG AGGTTCCAG AGGAGGCAGT
CTGCTGAAGG AGTGCTAAAT ACTNGGTCC AAGAGTATTT AGACCAGCAA GGTTCCTCCA CACAGATGCT GCGCTGATT

SEQ ID NO:584: (Length of Sequence = 441 Nucleotides)

GTGTGTTTAA AGGATTAAAT GAGATATTAC ATGTAATGTG CTCATCCCAG TGCCCAGCAC ACAAGAAATG TTCAATAAAA
TAGGAGGCAT AATTGTCTTG TTTGAATACT AGATAACCCT TTTAATGGAT ATTCTACAAT TATGAATCTA AGGTGCTTTG
GAGGAGCCTA GGCAATCTAT TCCAAAATTA AATGTAAGGA AGGTACATGA GTAAGGGATG GAGTAGGCCC TGGACCAACA
CTAGAGCTCC AAATTTCTTA AAAAGCTTGA GCTTCTTTTA CTGTGGCCAC GCCTATAATG GGAATAAATC TGGTCTTCA
AACAGTCCCT CCCCTCTCTA AGCTCTGCTG GGGAGTAGAG ACATCAGCAG GCTGGTCTG TGNITAGCTC CTCCCCATCT
TNGACTCTCA TCCCATTCCC TCTTCTCTAC TACCCATTCA G

SEQ ID NO:585: (Length of Sequence = 326 Nucleotides)

GAAATGCAGG TTCAGCTATT TNGCTCTGTC AGAGTCCAGT TAACAAAAGT GAGTNGTGGT ATAAAGAAAG TNATTTTTTT
TTTTTAAAT ATTCCAAAGC TAGCTGAGGG GAACAAGTAC AGGCTTCCG CCTAGGGGTA TCACITTGCT TTGGAGCAG
GAAGTAAGCA CTTTTAAAGG GGGCTTAACA TGAATGGCAC ATGGGGTCGG GGAAGTAAG CAAGTGCAGC ATCTACATGT
TAGTTTGTA CTTATCTAC TAGGTAGTCA AGGTGGTGAC TGCCGTGNTC TTGTGGGGC ATGTGTACTT TGGGGTTGTA
AATTGG

SEQ ID NO:586: (Length of Sequence = 431 Nucleotides)

GAACGAAGGA AAAGCATCAA AACCTACAGA GAAATNTTC AAGAAAAGA GCGGAGAGAG AGAGAGCTGC ATGAAGCATA
TAAGANCGCT CGGTCCCAGG AGGAGGCAGA GGGGATCCTT CAACAGTACA TTGAGAGGTT CACCATCAGT GAGGCTGTTC
TCGAACGCTT GGAGATGCCA AAAATTCTGG AAAGAAGCCA TTCAACAGAG CCAAATTTAT CCTCCTTCCT GAATGACCCC
AATCCCATGA AATACCTGCG GCAACAGTCA CTGCTCCAC CCAATTCAC TGCCACTGTT GAAACCACCA TTGCTCGTGC
CAGTNTCTG GGATACCAGC ATGTCAAGCA GGCAAGTGGG GTCTNCAAGC AAAACTTGTC ACTTCCCAA AGCAAGTGCC
TATGCTTGAC ANCCAGGCC TTACTTCCA G

SEQ ID NO:587: (Length of Sequence = 338 Nucleotides)

CTCAAGCAAT TCTCCACCT CAGCCTCCA AATAGCTGGG ATCACTGGCA CAAACCACCA TGCCCAGCTA ATTTTGATT
TTTTGTAGAG ACAGGGTTT ACCATGTCG CCAGGCTGGT CTCAACCTCC TGGGCTCAAG CAATCCTCT GCTCGGCT
CCCAAAGTGC TGGGATTACA GATGTGAGC ACCGCATCCA GCCCCACACC CTCATTTATA CCAATTACCT GCCCAGTAAC
TGTGGACTTT TGCTTCTCA CCCCTGCTCT GATCTGGAAG GAGAGGGATT ATGTTATAGC TGTGAGCAC AGTCCCAAAG
TTCAATATTT CTGCGGGC

SEQ ID NO:588: (Length of Sequence = 277 Nucleotides)

205

AAGAACATTT AAGTAGITCA TACAAAGAAA TATAAATTGT NCTTAAATAT ATCAAAATAT ACTCACCTCA TTCATAGTAA
AAGAAATAAA AAACITGTGCT CTGATGACAT TTTTCATCTA TGAGATTAC AAAGNTCTAA AAATTGAGAA TATACATTTC
CTATTGCCTT TGGATGGCAA TTTGGCAGTA ACTATCAAAA GTATAAATAT CTATACCCTT TGAGGTGTCA ATCTCATTTT
AAAGAATTIA TTCTTCAGCT ATGTACATAC ATGTAGG

SEQ ID NO:589: (Length of Sequence = 353 Nucleotides)

GTAATGAATT ATAAGAATCT GAATTGAGAG CTAAAATATC TGGGTGTIAG GCCTACTCTG CCACGNTTTT NTTATTTGCA
AATATTAGAG CTGAACTAGA TGACCTCAA GGCTCTAACC AACTCCAAA CCTACAATTC AATGGCTGAC TGATATACAT
TGTATACTCT TTA AAAACAA TTA AAATCAA AGANGNTAAT AAATGTGTCA TGTATTATAC AACTATTATA CACGTGTGTG
TGTATATATA TATATNININ CACAGAGAGG AAAGACATCT ATACATAGNC ATAACCATCA AATCAGTCAG AATTTCCATC
AGACACTTTN CATTTCCCAG GTCCATCAGA TGG

SEQ ID NO:590: (Length of Sequence = 364 Nucleotides)

CTCATATACA TAAAAAGTGA TAAGAATCCG AAAAGACAGC CAGGGGAATT AAATGCCAGT TGGGGCCAAC GGGGCCCTGA
TCACGGAAGA GGGCGCCCC AGCTCTCAAT CTTACACAA TCCCTGCACC CAGGGTCACA GAGCATGCGC AGGTCCCTCC
CGCCCACTTC CGGGCAACT GCCAACCACC GCGCAGGCTG AGCCCCAGGC AGGAAGCAGC CCACTTGGTG GGGTTGGGGT
ATGAGTCTT CCTCGCGGG GCTCGGTGGG TCCTGAGTAT TCTTTGGCGG GATTINCTGA TCCGTCTGCT CCAGGTGAGC
TNGGGAAGGC CCCAGGAAA GGCANAAAG GGCCTTTGCC AGGG

SEQ ID NO:591: (Length of Sequence = 311 Nucleotides)

GAAAGGGGAA TAGGGAGTTA ACGTTTATC AATAGAGTIT GGAAGATGA AAACGTTCTA GAGATGAGTG GTGGTGATGC
CACATAACAA TGTGAGGGTA CTTAATACCA CTGAACTGTA TGTTTAAAT GGCAAAAAGG GTAAATTTTA TGTTATGTAT
ATTTTACCAG AATTTTTTTT TTAAGCTTA CTGCATGGGG ACCAAGCGTG GTGGCTCACA CCTGTAATCC CAGCACTTTG
GGAGGCCNAG GCGGGTGGT CACTTGAGGT CAGGAGTTCG AGACCAGCCT AGCCAACATG TTGAAACCCC G

SEQ ID NO:592: (Length of Sequence = 358 Nucleotides)

ATTTTGGTIT CTACCCATCA TCTTCTCTC AAAGGAACCA GGGTCTCTG GGGATTTGGC TGATGCCAGG GGATGGAGAG
TGTCACTTGG NTCTGAAGGG GAGGCTGCA GCATGTGTGT GGCAGGTCAG ACAGACCCAA GAGCCAGCTT GGTGGGGCAT
CCCTGGCTAC CTTGGGGACA CAGTGAGCGC CGAACTAAAT AACATCAGGA ATGENTCACA ACGCAATGAG TAAGGGGAAT
CTGAGTCTAT AGGGATACAG ACCCAGAGGT AAATNGCCAT GGCCACCCAC TTTCTACAG GAGAATGTGA CTAGTTGAGC
GTAGGAACAT GGAACAAAT GTAGAGGTG GCTGACAT

SEQ ID NO:593: (Length of Sequence = 354 Nucleotides)

GACAGACTGA AGGAATATAT GCAGCTTAAT TTAACATTTT TTGAAATTTT ATATTGCAGA AGTTGTACAT ATTTNCTGTT
GTGAAATTAG AAAGANTTGA CAGGCAAGGA GGGTGTCTA CAAAGCACTC CATAGATCCA CCATACTGAG ACAATGCTTA
ATGCTTTGAT GGATTTATTT ATTTNATACT TTCTATGCAT ATGCATGTAT TGTATAAATA CGNATGCATG GTTAAATAGA
AATGGTCTC CTGGGTGTTT TGTATTATCCA TTTATTGTG TGAAGTAAAT CCCCAGAG GTAGGTTTGC TTTTGCCCTGA
GGAGTCTTTT GCTACATACT GGCTGTACAT AATG

SEQ ID NO:594: (Length of Sequence = 319 Nucleotides)

206

GAACATGGCC GTGAACTGCT CGGAGATGCG CTGGAACAGC TCCTGGATGG CCGTGCTGTT CCCGATGAAG GTGGAGGACA
TCTTGAGGCC GCGGGGCGGG ATGTCACACA CGGCCACCTT CACGTTGTTG GGGATCCACT CCACGAAGTA GCTGCTGTTT
TTGCTCTGGA TGGCCAGCAT CTGCTGTGCC ACCTCCTTCA TGGACATGCG GCCCCGGAAC ACGGTGGCCA CCGTCAAGTA
GCGGCCGTGG CGCGGGTCGC AGGCGGCCAT CATGTTCTTG GCATCGAACA TCTGCTTGGG TGAGCTCGGG CACGGTCAA

SEQ ID NO:595: (Length of Sequence = 370 Nucleotides)

GAAGAATANA AAGAAAAATC CAAAATGAAG AGTATTATAC AAGACAACATA GTCAATAGTC TTCAAAGTGT CAAGGTCATG
AAAAATTGAG GAAGCATCCC AGACTGAAGG GGACTAAAGA AAAGTGACAA CTAAATGTAA TGGGTGATTG TGGATTAGAT
CCTGGAATTG AAAAAGAACA TTCATGGAAC AACTGACAAA TTTGAATAAG GTCTGTAGAT CAGTAACAGT ATTGCATCAG
TGTTAATCTC CTGGTTTAGA TCATGTCTTA ATGGAAATGT TTTGTACTAT TTTTGTGGA CTCTTAAGGA ATGTGGGTGG
AGGACACGGA TGAGACCTAC TTGCATCGAC AACAAGGCGT TCTACGGACA

SEQ ID NO:596: (Length of Sequence = 335 Nucleotides)

CCACAGAGCC CCAACTCCCC CCACAGGAGC CAGTCCCCC TCGAAGGCCT GGAGCAGCCG GCCTGTGACA CCTGAAGCCG
CCAGCTCGCC ACAGGGGCCA GGGAGCTGGA GATGGCCTCC AGCGTCAGTG CCAAGACTGA GCGGGCCCTC CAGTGTGTGTC
CAAGGAAATG TAGAATCACT TTGTAGATAT GGAGATGAAG AAGACAAATC TTTATTATAA TATTGATCAG TTTTATGCCG
CATTTGTCGT GGCAGTAGAC CACATCTGTT CGTCTGCACA GCTGTGAGGC GATGCTGTTC CATCTGCACA TGAAGGACCC
CCCATACAAG CCTGT

SEQ ID NO:597: (Length of Sequence = 336 Nucleotides)

CTCCTGAACA TCACAAACTT GGTTCCTACC TACCACACGA GTAGCCAAAA GAAAAGAAGC ACTAATAGAG AAAGGGGTGT
CTCACACCAG ACAGAGGACC TCTGCTGTCA ATTAGATCCA GTATCATGAC CTAACCTTAA GTGTGGAAAA GAGTTCAGAT
CTCTGAGACA CTGTGAAGAA ATGGATGGCT CATGTAAACAT CTCTGATCCC TCAGTCCCCA ACCCTGGACG TGTTTCATTT
ACAACATTCA TAGGAGTTAA CTAGCAGTG TTGCAAGTTA AGGTTCNAAA CCAAATTATT TAATCAGTGT CCCCCAATA
AAATCACTTA TCCATTTTA TGTCTAGTTT AGTTTT

SEQ ID NO:598: (Length of Sequence = 402 Nucleotides)

ACCACTACAC AATATATCTA TGTAACAAAA CTGCATTCTT ACCCCTTAAA TTCATACAAA TAAAAAAAT TAAAAAATAA
ATAAGTAGG ACAATCCCC AGATAAATAA ATTAATAAAT AAATAAATAA ATAAATAAAT AAATAACTTT AGCTCTTGCC
TTCTCTTACA CATAAGTTAA TGCTGATGG GGTTAGTGGT TATGCTTCTG TAACTATAA TCAGATGTAC TCTTGCACCC
AACTTAGAT GCGATTTTNC GTATACTGGA ATCTTTGCTA CCTGTATATA AACTGTGGAA CTGAAAATGC TGCATTGGGA
GCAGTCTGAT AGGNTCTGTC CTAAAGGGCT ACTCTGAGGG GCTCTAGGGG CTTCACTCTA CAGGCCCCCA GGGAGGACTG
CT

SEQ ID NO:599: (Length of Sequence = 369 Nucleotides)

CTCAACAAAG TTTGGATTTT NTCCACGATG ACTCCTTGGG TGAATTTTAA ATCAAGTTAT TTCAACCATT TTCTCATAT
ATTTCTGTCA TCCCTATTCT GGTATTCAGT GAATACATGG GAGAGGTATG TNAITCTCAG CTCCCACAGC CCATAAGTCG
GGGAACCAGG ACTTCATTCC CCTCTGCTCT AACTCAGACT GTGAGGTCTAT TGAGGGCAAG ACTGATGAAT TGTTCTCTT
CCTATCACTG GTGCCAAGCA CAGTAGTTGG CATAAAGAAG TTAATCAATA AAGAGGGGGT GAATTTAATG AAAGACAGAG
GAAGNGGGGA CCTGGGGGAA GAGGTGGGCA TAAAGTGAAG GTACAAACA

SEQ ID NO:600: (Length of Sequence = 342 Nucleotides)

207

CCGCCCTCTG GGTTCAGCA ATTCTCTGCTC CTCAGCCTCC CGAGTAGCTG GGACTACAGG CGTGGGCTCC ACCACCACGC
 CCGGCTAATT TTTGTAATTTT NAGTAAAGAT GGGGTTTCTC CATGTTGGCC AGGCTGGTCT TGAAGTCTG ACCTCAGGTC
 ATCCGCCCCC CTCGGCCTCC CAAAGTGCTG GGATTACAGG CGTGAGCAGN CGCACCGGC CAGCTGCTTC TATTTTAATC
 TGAAGTTGGA AACACCTTCC TACTTTAAGG CACAGGATCA GGGTAAGAAC CCACATGTAC GAGCTAACAG AGCTGCACTT
 CAAATTTACT TAAGTTAATT AA

SEQ ID NO:601: (Length of Sequence = 319 Nucleotides)

AGTACTATTC TGCCATAAAA AAAAGAATGA GATCCTATCA CTGCAACAT CTGGATGGA ACTGGAGGTC ATTATGTTAA
 GTGAAATAAG TCAGGCACAG AAAGAAAAAC TTTGCATAAT CTCACTCATT TGTGAGAACT GAAATTTAA ACAATTGANC
 TCACGGAAAT AGAGAGTATA ATGATGGTTT CCAGAGACTG GGAAAGGTAT TGGGTGGGGG GCAGGGAATG GGGAGGGTTA
 ATAAGTACAA TGCAATGAAT ACGATCTNGT ATTTTACAGC ACAAAGGGT GGCTATGGTC AACAATAATT TATAGTACA

SEQ ID NO:602: (Length of Sequence = 334 Nucleotides)

CACCCACAGA CTGCCAAGTG GGACAACTTT CTGGCTTTTG AAAGGCTCCT TCTTCAGAGC ATTGGGGAGT CAGCAATGTC
 CGTTGIGTTA AATCAGCTGC TGCCCATGAT TAAGCCTGTA ACCCAGAGAA CCAACGAGGA CTACAGCCCT GAGGAACTGC
 TGATCCTTCT CATATATATT TATNCTGTCA CTGGAGAGCT CACGGTAGAC AAAGACCTGT GTGAAGCAGA AGAAAAAGTC
 AAGAAAGCAT TGGCTCAGGT CTCTGTGAG GAATCTGGAT TGTACCTTT GCTGCAAAA ATTACGGACT GGGGACTCTT
 CAATTAATCT GACA

SEQ ID NO:603: (Length of Sequence = 410 Nucleotides)

TTTCACCATG TTAGCCAGGA TGGTCTCGAT CTCTGACCT TGTGATCCG CTGCCTCGGC CTCCCAAAGT GCTTGTATT
 CAGGCGTGAG CANCCGCGCC CAGCCAGGAT TATTATTTTT TAAATCAGAG AACTGAGTA CCACTAAAG GGACTTAAAT
 TATGCAATTG GAATGAACT AAAGTGAATT GAACATTTAG TTTCACTTAG ATTTTATTTT TCCTGCCAAC TGTATATGA
 GAGTTTGAGA GGGAGCCAG ATTAGACTTA GAGAAAAATA AATAAATTAC ATTTTATCTG CACACATGAA TTCTAGAGTG
 AGTTAAATTT ACCACAGCGG GGCATATATA TGTATATATA TGATACCNIG TTTTATATA GCTCCNATA GTTTTAAAG
 CACTTGTATC

SEQ ID NO:604: (Length of Sequence = 399 Nucleotides)

TCTCTAAGCA AAAAGAAAAT GATGAAAGAA GCAACTTGG AGCATCAGAA AGGAAGAAAG AACATGATAA AATGAAAATA
 TGAGCTCCTA TTATGAACAT CGTATTACCA TTCATTGTA AACTTAATCG TATATTTATA TATAAGCATC CTCAGAGAT
 GCTGTGGGTT CAGTTTCAGN CCACTACAAT AAAGTGAATA TAGCAATAAA GCAACTCATA TGAATTTTTT GGTTCCTCAG
 TGCATATAAA ATTAANCTTC ATGCTATACT GTAGTCATTT AAGCATGCAA TAGCAATTATG TCTAAAAANT GTACATACCT
 TTATTTAAAA ACGCTTTTAT TGCTTAAAN AGGCTAAATG GCCATCTGA GCCATCGGCT TTTTCTCTGG CAGAGGGGG

SEQ ID NO:605: (Length of Sequence = 372 Nucleotides)

ATGCCCTAGA AATCCTACCA CCTCCAGAA ATGATAGTTA TGGAAATTAA CATGGCATGT CAGATATGGT TCGCTGATGC
 CTGCTTTAG TTCTCAGAAA TAAGGCTTTA AAAGACTGGC ATGTTTCAGG ATTGCTGICA GGAAATGATA ATTTAAAATA
 CCCAAGAGTA CACTAAGAAT TATGGAAGCA TCTGTGAAAC TAATAAGCCA GTGGACATAC TGATTTTTAC CAATGTGTCT
 ACATACTATA TTAAAAAACT TCCTACAAAG TATGTCCCA ATTCAGTTCA TCTGAGGATG TGAAACACT ACAGTGTACC
 TTAAACATC ACATTCACAA CCTGACAGA CTGAAATAAA ATGAAATTAG GG

SEQ ID NO:606: (Length of Sequence = 399 Nucleotides)

208

TGCCTTCCTT TCTTCAATTC GAGACAGCAG TATCATTAGT GTTGTATAGG TTATAATTAA ATCTAAGTAG TTCTTTGTTA
 AATCAAAGTT TACAGTAATA TCAAAGAAGA CTTGGCAAAC GTCAATAGTA TTCAGCAATT CACAAACATG GTCCTTAAAT
 TCCATAACAT CTACAAATGT GAAGTAATAT AATGCCAGAT TTINCAGAAT CTCTGATTTT CCTTTCTGTA GTTGTGCAAG
 CTGTTGATTG TTGTTGCGGG TTTCTACAGC AGGGAATTTT CTGACTATGA ATTTCCAGC AGATTCCAGG NTFTTGTGCA
 TAAGATAGGA TGGNTTTGCC NTGGGGNCTC CACATGCCNT TCTTGATGTT GTAGAGGCGG GTGAGCATGC CGACGGCCC

SEQ ID NO:607: (Length of Sequence = 412 Nucleotides)

CTGTACCCCTT ATAAAGAGTG AAAGCCCTGC CCCCTTCTCC TATAGAACCC CTAGCAAGGA GACTGGAAGA NTCAAAAACA
 ATCCACCCAA AAAATGGCCT GCAGGGACAC AGTCCCAGAG AAAGAGACTA TGTACAACAA GGTACAGTAA GTAAGACCTG
 CCCACACACA GGACTTCCAA TCGACTTCTT AGTGCTTACT CCTACAGATG AACAGATCAA CCAGGGCCAC CAGATGCTCC
 AGGAAAGACA GGAGTCCAAA AAGAAAATTC GGTAAGTTTG AATATATTTT GAGCAAATTT TCAGTTCTGT TGAAGTATTG
 GGGGGACATT CAACAGTGAG TAGTAGTTTA GGGGGAACAG CTGGCACCTC TGGCAGTCGC CTCAGAGGTC AANCCAGCGT
 NTAGGTTGCT TT

SEQ ID NO:608: (Length of Sequence = 419 Nucleotides)

ATGAAGGCAG CTGAAGTCTC CATCAAGTTT CTGCCTCCCC AACGTAATAT GGAAGTCGTT CTGGCTGTAG GACCCCAGCT
 GATTGGAATT GGAAAGCACA GTGCAGCTGC AGAGCTCTAT CTGAATCTGG ACCTTGTCAG GGAAGCAATC GATGCTTTCA
 TCGAGGGTGA GGAGTGAAC AAGGCGAAGG TTGTAGCTAA GGAGTTAGAT CCCAGGTATG AAGACTATGT GGACCAGCAT
 TATAAAGAGT TCCTCAAGAA TCAGGGCAAA GTGGACTGCG TGGTGGGTGT GGATGTGATA GCTGCTTTGG ACCTGTATGT
 GGAGCAGGGC CAGTGGGGAC AAGTGCATTG AAACAGCTAC CAAGCAGAAC TACAAGATTC TGCACAAGTA TGTGGCTTTG
 TATGCAACTC ACTTGATCC

SEQ ID NO:609: (Length of Sequence = 337 Nucleotides)

GGTGAAGTT GTAGTGAGCC GAGATCATGC CACTGCATC CAGGTTGGGT GACAGAGAGA GGCTCCATCT CATAAAAAAA
 GAAAAGAAAA AGCATTCTCTG AAAGGAATAA AAAACAAATT GATAACATCC CCTAATCTCT AGTTGTTGGG ATGTAGTATC
 CTTCAATTGA TCAGGAAATC ATATGATTGT CCTTAAATTA TTAAGTTGGC AGAATTGTG TGGTTTCATA ATGATGCTTG
 TAAGATGATA TTTAATGGA AATGTTTTAG ACTATATCIN TTGTNGTTTT TNCCTGCTGN TTTGTGTAAG GCTTAAANCT
 ACCCCCTTTA AAAACAG

SEQ ID NO:610: (Length of Sequence = 441 Nucleotides)

TAAGCCAGAG ACATTTCACT GTATTAATCT TGATACTAAT TACTAAGGCT TTTCTGTGGA CATTAAATTT GATCTGTTTA
 ATTGCAAATA CAATAAAGT CGTGATTTAT GCTTAATGTT TCTGCTAGGC TGATGACATT TTGAAAATGG CACTTATAGC
 CTGGTTTGTC TTGGTTACAA CTTTGTGGC TCCAGATGCT AAAAAAATC TAATTGAGTA AGTAAATAAT GCAGCTAAGC
 GTGCCTCTCT CGCTTCGAA AAGTTTTTTC TACTCCTTTT TCTCCCTGGA GAGGCCCTGC TGCACACTGA TGCTGATCTA
 AGGAAATGCC TTGCTTCTT TGCCACTGAG CAATGTTAGA ATCACTAGGA GGGCAGGGCT ATCCCACTGG TCACTCTGTC
 CCAGCATATC TACCATGAAG TCAGCAGGGA CTACAACTC C

SEQ ID NO:611: (Length of Sequence = 344 Nucleotides)

TTTGGTACAG TAATTAGGTT TGGTTGATTC GGTATGGGG GTATACACGC ACATGCAAAC ACACACAGGG TGTGCGTGTG
 TGTATAAGG GGCATATACA CATGCACACA TATACACATA TGTTATATAG GATGTGTGTA TATGTGTGTA TATATATAGG
 GTGTGTATGT ATCCTATATA TGTCATATA CATGTATATG TNGTATATAT ACATGTATAT GTACACATGT GTGCATATGT

GTACATATAT GTGTATATAT GTATATATCC CACATCTCCA ATTTCCTAT ACGTATATAC ACACATATAT GTTATATAGG
GTGTACAGAT ATAGGATATG TGTG

SEQ ID NO:612: (Length of Sequence = 384 Nucleotides)

TGATGACCAT AAGCCCATGC TTTTCATAGA TGTTAAGGG TTAAATGAGG TAATGCATGT CGAGTGCTCA GCCAACTGAG
ATTCAGGAAG CGCTCAATAG ATGCTGGCTG TCATTATTAA CTGAGTAAAGT AATCCTTTTC CCACAGAAGC AGTAGAAGGC
TGACGATGTG TGTGAAAAGG ATGGATACAA TTCCCTGGGC CACAAATAAA GGTTTTTTTG GTTGTGTGTG TTGTTTAAAT
GAACTGAAAT GAGTTTGAGA GATTCATATA TTATTTTACA ATACTTCTTA ATGCTAGTTT AAAAAGTTCA ACATTGTCAT
TCTACTCCAC TTCCGTATGA GATAAGTATA TGAGGGNGCT TAATCCCCG NTAAACTAAG CAAG

SEQ ID NO:613: (Length of Sequence = 342 Nucleotides)

TATTTATTTT TGTGGGIGTC GACTTCCTAT GTGGGCTTTT TGGGIGACAC TCCCTTAAGG GTTCAGTTTG ACAATTCTNA
GAGTTGTCTT GCAGTTGGAG GCCACCAGAG GTATCTAAGC TCCCTGCTTC CTATTNATA ATCTCCAGC CCCAGCAGGT
CCACTCCCTG TTCTGTGTG TTTGGCCCGG GCACAATCCC CACTGCTTTG CTAGACGTGC TTTCTGCCAT GTGGCTTTGG
GCCTAGAGCT TGTGTATAAT TGCAGCTTGT GGCAGTGGAA ATATGGCTGA ATGAGCGTCT AAACCCCTGG GTNGGGGGNC
TNAANTNCNN GGGTTTTTAA AA

SEQ ID NO:614: (Length of Sequence = 393 Nucleotides)

CAGTGTATT AACATAGCC AGGAGGTGGA AGCCACCTAA ATGTCCATCA ACAGATGGAT GGATAAATGA AATGTGGTCT
ATACATACAA TGGAAATATTA TTCAGCTTTA AAAAGGAGC AAATCCTGCC ATGTGCTACA ACGTGGATGA ACCTTGAGGA
TGTTTTGCTA AGTGACATAA GCCAGTCACA AAAAGACAAA CGCTGCATGA TTCCATTAT ATGAGGAATC TAAAGTAGTC
AAACTCTTAG AAAGTAGAAT AGTGGTTAGC AGGGGTTAGG GGGAGGGGAA AAAGAAAAGT TACTGTTTAA TGGCTATAGA
GTTTCAGATA TGCAATACGN NAATTTCTGG GGGATTCTTT TGCACCACCA ATGTGCACCG TATAATCCA CTT

SEQ ID NO:615: (Length of Sequence = 310 Nucleotides)

ATTATATACA TTCTTTACT GATTTTTTAA AATGTGTCA ATATCTTCAG TGAACCTTA ACAATCTGGG GAACGTTTTT
CCTCAATTAC CACTTCAGCA ACGTTCATAC GAAATCAAGG CTGCGCTTCA TGTGAGTGC AGGNTCAACT TTAACCTGAA
GGTTTGTGTT TGCTCTAAC ATCTTCAGAG TGAGCTTTAG GGATGCCTGA AGGATGGACA GTACAAGCAA GCAGCTACTT
CCATGATACA GTGGGAAGAT AAAAGGCCC ATTCAGTCCA GCCGTGACCT GTAAATCCAG CTTGCCCTCC

SEQ ID NO:616: (Length of Sequence = 266 Nucleotides)

GAGATGGAGT CTCGCTCTAT CACCCAGGCT GGAGTTCAGT GGCACGATCT CGACTCACTG CAAGCNCOCG CCCCCAGGTT
CACGCCATTN TCCTGCTCA NCCTCTGAG CAGCTGGGAC TACTGGTGCC CACCACCACT CCCAGCTAAT TTTTNTIATT
TTTGGTAGAG ACGGGGTTTC ACGGTGTAG CCAGGATGGT CTCGATCTCC TGACCTCGTG ATCCACCCGC NTGGGGCTCC
CAAAGTGCTG GGATTACGAG CGTAAG

SEQ ID NO:617: (Length of Sequence = 376 Nucleotides)

ATAATAATGA AAAGTGAAGG GTGGGGGTGC TGGCCACCTC CCAITTCITT GCCTGGGTGG TGGTGACCAC GGCGCCCTTG
TGTCCTTTCC ATTGGTTACT GAGGACCATT GCCCTCATGG GCCCAGGCCA CAGGCACCCA CCTGTNAGCC TCACCTGCCA
CCCTCTCCA TGTGTGCTTN TTGCCCCGCG GGCTGGGCTG GGCATGGGGG AGCTTATNTC CCGACCAAGG GGCTTGGCCA
TGNTTCCTTC ACAANCCCCA CTCCCCGCGG ACTGAGCCTC CACTCTCTGC TGGGCTGAGG GCTCTGTGGT NGCCAGGAG
CCCTCCAGC CAGTGCCAG CCCATCCCAT CATCAGCACT TGGTTTAAAG CTTCAA

SEQ ID NO:618: (Length of Sequence = 352 Nucleotides)

GCCCCATCCTG GCTAACACGG TGAACCCCGT CTCTACTAAA AATACAAAAA ATTAGCCAGG CGTGGTGGCG GGTGCCTGTA
GTCCACGCTA CTTGGGAGGC TGAGGCAGGA GAATGGCATG AACCCGGGAG GTGGAGCTTG CAATGAGCCA AGACTGCGCC
ACTGCACTCC AGCATGGGCG ACGGAGCAAG ACTCTGTCTC AAAAAAATAA TAATAATAAT AAAATAAAAA GTTTGTAGT
ATTAGCAGAT ACATATTACT AGGTACCCCC CATGCTCAAT GAAGTGTGG GNTACTCTNA AAAAGTGTCC AATCTTACAG
GTGTGACTTC CTCIGGAACT GCAAATTCIT TT

SEQ ID NO:619: (Length of Sequence = 359 Nucleotides)

AAAAAAAACG ACCCCCACAA GGGGGAAGGC CCCAAGTGGG CCCCTGCCTG TNGTNCCTC TGGCTCCAGA GATGTCTGCA
TAGGCCTCAG CTTCTCACTG GCCAATCTCC TCTTCATGGG CACCAGCCAC TGCTAAACAT CCTTCCCTCA CTTCTGTGT
AAGCTTGCTC CCCTGAGCCA CAGGTTCAC ATCTAAACCT CAGCTCCAGG GAAAGGAAGA ACCAATGGAA GTGCCAGAGT
CCTGGGGCAA GCCAGAGCAT CACCTGTCAG CAAACCTCTG CTGGGCACTC TAAGCAAGCA CAGGACAAGN CCCAGAGTTT
AGTGTGTCCA GTATCCAGCA TGGNGACAGC ACATGCATT

SEQ ID NO:620: (Length of Sequence = 447 Nucleotides)

CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGTTCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG
CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTTC TGACTCTAAG CTCAGTGTCT TCTCCACTAC
CCCACACCAG CCTTGGTGGC ACCAAAAGTG CTCCCCAAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA
TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCCCTGGGAT AATTTTTTGT ATTTTTTAAG
TAGGACACGG TTTCACCATG TTTGGCCAGG CTGGTCTTGG AACTTCTTGA GGTGTAAATG ATCTTNCCTC ACCTTNTGCC
TTCCCAAGTG CTTGGGATTT ACAAGGTTTT AAGCCACCCG AATCCAT

SEQ ID NO:621: (Length of Sequence = 237 Nucleotides)

CAATACCCCT GGTTCCTGGG GCAGGTGTC TGGGATCCTG GACAGGAGGG TCAGGTGAT TTTAACCCAG AGAGACCTGA
TCTCATCACT GTCTTTTGA GGGGAGAGAA GTTCGTNCCG GCCAAAGGGG ACCAGTGTGT AGAAGTGTCT CTCCAGCTCC
TTGGCGATGT CACTNGTGGT CTTGGCGTIN ATGGAGCCTA CAGGGGCCCT AGGACCACTG CCCCNTTGG CAGCGGC

SEQ ID NO:622: (Length of Sequence = 247 Nucleotides)

AGAAGGTCAA TAATAACAAA CTCTTCAAG GTAAAGCAGG ATGTTGGAAA CCATTGCAAG GAAGCTAAAA ACCTTGAAAA
AAGATTAGAA GAATGGCTAA CTAGAATAAA CAGTGTAGAG AAGACCTTAA ATGACCTGAT GGAGCTGAAA ACCATGGCAC
GAGAACTACG TGATGCATGC ACAAGCTTCA ATAGACAATT CGATCAAGTG GAAGAAAGGG TATCAGTGAT TGAAGATCAA
ATAAATG

SEQ ID NO:623: (Length of Sequence = 315 Nucleotides)

AATTTAGGTT TGTTTTATTT AAGTTTAATG TTAATTCCAT GCTGTGTTTC AGTAAGANCA ATACAGATTG TGTATCTGTG
GCTCCAGTCA GATATCCAGT AGTACAAATN AGCTTCAAGT TACACATACT GANCAAAAGA GGTGAGCGA GCGAAGGAGG
GGAGGAGTGA GGGGAAGGAG GTAGGGGGAG GGGGAAGGAG AAGAAACAAA AGANTTGAAC AGGCATGCAG GCTTTTCCAT
ACCACCTTCA ACGCTAACCT GCTTCAGTGG GAGAGTAAAG TAGGCAAGAN TGAGCAGCCA CGGATTGTTG AACTG

SEQ ID NO:624: (Length of Sequence = 375 Nucleotides)

CCATGTTGGC CAGGTCTCGA ACTCCTGGCA TCAGGTGATC CGCCCGTTTC AGCCTCCCAA AGTCTGGGA TTACAGGCTT
GAGCCACCAG GCCTGGCCCG TTAATATGTT TATTTTAA TGCATTAGTA AAAAAAAAAA AATTTTAAAT TGCTAGAACA

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TTAAATATCA ATACCCACAT TAATAAAGC TATTTGGGAG CCTTAATAAT TATCAATGGT GTAAAGGGT CCTGAGACCA
 AAAAGTTTGA CTTCACCAGG TGTTTGAACA CTACAGATCC CATCTTGCCC ATGAAGCTTC CCTAGACATC CCCACCCAC
 CGTGCTCCNT TCTGCATCCT ACAATAGCAT CCACTGGTAA GGGCCACTTA TTTTA

SEQ ID NO:625: (Length of Sequence = 305 Nucleotides)

GTTCCTAGAT TACTCAAAT TAGTACTCTT CCATCTTTTC TTGTGCTAT TCTTTTAAAA TCACAAGAAG TCCATACTT
 AAGTAGGAAT TTGTATAATG TAACTTATTG TGAGTATATT TCCTTACCAG CTCATAAAGA ACTATGTAAA CTGGAATGCA
 TATTTTINAC ATAAAAATAG CAAAAAATAA AAAANCAAAA AAAAAACAGT ACTGGCCTAA TACTAGTNGA NITACAGAAT
 ANGGGTAAAT ANTACATGNN CATCCTTACA GAGTGAGCAT AAACAATACA TGGTAATAAT ATTTA

SEQ ID NO:626: (Length of Sequence = 300 Nucleotides)

AGCAATCACA TAAGGAAGGC ACCTCGAGTC TAGTAACACT GTGACTCTTG CGGTCTCTTA GAGGTACTTG GTGGTCTTGG
 ATAAGATCTG GAAGAATCTT TTGGATTTC AGACATAGGC TCTTGINTC TTCCCTTACT TTCTCCCAA CAAATGGCAT
 CTCCTCTCT CTCTCTCTGT GCTGAGCTGC CTAGAAGTGT GGGTGGGATC ACACAAGCAC CCTTNTGGCC ATTGCCCTTG
 GGACTGTGCT AGGTGAGACC TGAAGTCAGC ACAGCATTGG GTCTACCCA ACACCTGTGG

SEQ ID NO:627: (Length of Sequence = 369 Nucleotides)

GAAAAAGAGA GAGGAGAGGG AGTCAGGAGT GCTTTGGAAC TGGAGGTTTG CTTTCCACTG ACAACATCCA TATCINCTGC
 TAATGCCAAC ATGCTCCCAA GTGTCTTAGT GGGTCCACA AAGTTGATCC AGCCAGAAG AGTTGCAGG ACAGTCAAGA
 AACCAGAGGT GCTGCCACA TCCCATCAC TCCCTTCC CACTTCCAG CCTTGCCCCA AAAGCAGCAG CTCAGGACAA
 CCTGAGATAC TACTGINATG GGTCCCGGG AGGAGGACAG CAGGAGTCTG AACTCCAGAG GAGGGGAAT ATGGGTAAAA
 CAGAGAGATG GCAAGGAGAC AAGCTGTC CAGACAGAG GATGGGAGG

SEQ ID NO:628: (Length of Sequence = 310 Nucleotides)

TTTTTTTTTT TGAGACAAGA GTCTCACTCT ATCACCAGG CTGGAGTGCA GTGACATAAT CATGGCTCAA TGCAGCCTCG
 ACCTCTCAGA CTCAAGTGAT CCTCCACCT CAACATCCA AGTAGCTGGG ACTACAGGAG AGCCACCATG CCCAGCTAGT
 TTTINACTTT TCTGCAGAGA TGGTGTTTCT CCATGTTGCC CAGGTGGTTC TGGGAAGTCC GGGGCTCCAG CGATCCTCCT
 GCCTCAGTCT CCCAGAGTGC TGGACCCACA GGCATGAGCC ACCACACTCA GCCCCAAAT CCATGATTTT

SEQ ID NO:629: (Length of Sequence = 443 Nucleotides)

CGCAGAGCAG AGGGTGGAAA GGCAAAGAGT ACAAGTGAGC GAGCCCTTTT TGTGATGGCG TTGATCTGTT TACAAGGGGA
 CTGCCTAAC ACTTTCCATT AGCCCCACT TCCCAACACT GTTCAGTGT TGCAGTTAAG TTTCCAACAC ATGAATGCTG
 GGGACACAT TTAAATTAGA GCAGTGATGA TCAGAAAGTT ATTGTTGGGA AAGGAGGTTT TATTTTAACT TAAGTAGCTT
 GAAAAAGCTC TTCAAGGAGT TGATACAAGA ACTGAGATTT GAATTAGAGG ACCGAGTAAA GTGAAGAATC TGCGGGCAAA
 GTCCAGGCA GAGGGAAGAG CAGGAAATGA TTATCAGTA GACTTGCTCT CCCATCTCG GCAAGGGCTA TTTACATTT
 TCTTCCACTC TCTTCTCAG CACATCTCCA CCTGGGTTTT CTC

SEQ ID NO:630: (Length of Sequence = 263 Nucleotides)

TGGATGTGGT GAAAAGCGAA CACTTATAGA CTGCTACTGG GAACGTAAGT NAGTACAACC TCTATGGAAA ACTGTATGGA
 GATTTTTTAA AGAACTAAAA GTATATCTAC CATTTGATCC AGCAATCCA CTGCTGGGTA TCTACTCAA GGAATAAG

TCATTACATC AAAAACACAC CTGCACACAT ATNTTTATTG CAACACAATT CACAATTGTA AAGATATGGA ACCAACCTAA
GTGCCCATCA ACCCAATGTA GGG

SEQ ID NO:631: (Length of Sequence = 221 Nucleotides)

AATTTTNACA TATCAGTAAT TGTTTTTATA ATTTGTGGTT TTATGAAAC ATTGCTATGC ATTTATTAGG AAAAAGTGA
TTTCCCAACA GGTGAAGTGA AAAGTATTT TAACTATAT ACATAATCAA GATCCTGCCT CTACGGAATT AGCTAAACCT
AAAAATGTTT GCATTAATGN ATAAATTCTT CCNGCATTCC TTGGGCCNGN TCTGGAGGTG G

SEQ ID NO:632: (Length of Sequence = 344 Nucleotides)

TGTGATGGAG ACAATACTT CAGTATTGGG ACCCATGGGA GGTTGTCTCA CCTTACCAC AGGACTAAAT CCAAGCTTGC
CAACTTCTCA ATCTTTGTNC CCTTCGTCTA GCAAAGGATT GCTACCCATG TATCATCACC AGCACTTACA TTCTTCCCT
GCAGCTACTC AAAGTAGTTT CCCACCAAAC ATCAGCAATC CTCTTCAGG CCTGCTTATT GGGGTTTCAGC CTCTCCGGN
TCCCAACTT TTGGTTTCAG AATCCAGCCA GAGGACAGAC CTCAGTACCA CAGTAGCCAC TCCATCTCTT GGACTCAAGA
AAAGACCCAT ATCTCGTCTA CAGA

SEQ ID NO:633: (Length of Sequence = 378 Nucleotides)

GGTCAGACCT GAAGCCGGCA CAGCGCTGTG ACTGCCAAG ACCCCACTG TAACAACAAC CCAGCTGCCA CCTATTTCAC
TCAAGGCCCC AGGGCTCTCC AATTAGCAGG TAGTGAAGCC AGCCAGGCTT CTNTCCCTCC CTTCAGTCCA GTAAGCTCCC
CTGGTCCCTA GATGCATTCA AAGGTGCTGT CTGAGAGCCA GGGCTCTCAG TCATAAACCT TATAAATCTA CCTGGNGTTC
TGTTCTACCA TCGTGTAGCT GGCAGTGAAT CCACCCGGCA AATCCCTTCC CACTNTCCCT TCCCTCTTN CCCAGGCAGG
GTAGTCTGTT NCCACCTACG ACGTCATCAC AGTCTCATGC GGGATTACTG CCAGCTTC

SEQ ID NO:634: (Length of Sequence = 287 Nucleotides)

ATCAGTGGTC TACCACAGNT TAAGTAACGG GTCATATTG GAGTATCACA CATCTCAGTC TTGTAGAAAT TAGGNACAGC
AATTAGGAGT CATGCACATA TANGAGATGT AATCCCAACC TTGACTATA GCCTACTCTT GINTTTTACA GAAAAGACTG
TGGNGGAAGA AAACCCITTA CCTNTTNTT CAGGGAGAAA CINACANCAC TCANCTGCCT GGCAGTGAAT ATNTGGCATC
CAGTCCACTT TACCATCAGT GTTTAAGGAA ACCATCTCTG GTAAGC

SEQ ID NO:635: (Length of Sequence = 226 Nucleotides)

TTGGGATGAT GCTTTTATTA AACGGAAGCG TCCAAAAGG TCTGAGTCAA TGGTGGAGAG GGCAGTCAGC CCTGTGGCAT
TTCAGGGCTC CCCACCGATA GINATCGGCA GTGCINACTG CAATGTGATA GAGATAGATG ATACCCTCGA CGACTCCGAT
GAAGGATGTG ATCCTGGTGG AGTCTCAGGA CCTCCACTT CCATCCTGGG NTGCCCCCTC CCTCA

SEQ ID NO:636: (Length of Sequence = 367 Nucleotides)

AACGCAATAA AAAGACAAAT TCCAAATGG GCAAAGATC TGAATAACA TTTCTCCAAA GATATGCAAA CAGCCAATAA
ATACATGAAA AGATGGCCAA CATCAATCAT TATGCATTGC AGAAATGTAA GTCAAAACCA CAATGACATA CCACGTGCT
CCCCTAGGN TAGCTACAAT CAACAAAATG GACAGCAAAA AGTGTGGTG AGGAGTAGAG AAATCTGAAC CCTCATGTAT
TGCTAATGGA AACACAAAAT GATGGAGCTA CCATGAAAAA CTGCTTATCA GTTTGACCTC GGGAGTTAA ACACAGAAGT
ACCACATGAT CCAGCAATTC CACTCCTAGG TATATACCCC AAGGACT

SEQ ID NO:637: (Length of Sequence = 384 Nucleotides)

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TTCAATAAAAA TTTTACTTAA AATCTGTAAAC GCTAGATATT GACTATCCCTT AGTTGAGTCA CTGAGGTTTA AACACAATGG
 TAAGTCTTAA AGTCTGCTAT TTACAGAGCA TTGAATCTGT ACCAATTTGC AATAGAAAGC CTTCAGTATG CAAGAAGTTT
 GCATGGGTAT TAAGAACACA GCCTAAATAA GGCAATTTGAT CTAATCTGCA GGAAGAAITTT TCTTCCCCAA AACAGAATTA
 TAAAAGCTTA CTTTAAACAG GAGGCAGAAT AATTCTTTTA GGAAACCAIT TCATTCTGTT TCTACTAACC TATACCATCT
 GAGGAATTCT AGGGAGGATA ATAAAANTCT CGTGTATTCC ACAGCAAAC TACATACCCT AAAG

SEQ ID NO:638: (Length of Sequence = 409 Nucleotides)

GAAATTTTTC ATCAGCTCTT GTTCTCTCTC ATTCTTTTTC ACCTTGTAGA TTTATCCITT TTTCTTAATT TATTCTCACT
 TAATGGGATT TCAGGAGCAT ATTGACTAAG TTTTCATTTT TACATGTATA CTGGGGAGTA TGACATAGAC ATCTCTGTAC
 TTAGATATTA CTGATGTAAG TCTACTTTGA ATCAAATGAA CAGATGTTTA AAAAGTATTG TNCCTCAATTG TTTTAATGAT
 TTCINCCGTG GAGTTGGGGT GGTGCTGCCC ATCACCACCT CAGGACGGGT ATTTGAAAAT ACCTGGGNA AATTGTAAAC
 ATGTCTGGGA AAACACTGCA GGATATTTTA ATGGGCAGA GGGGTCAAGG GGATGGATTA ACCATTGCGG AAATGTGAGG
 GACGGGTCC

SEQ ID NO:639: (Length of Sequence = 197 Nucleotides)

GGTTCTACTC ACGGCTCAAG AGCATGGCTC AGGAGGAGAT CCGCAGAGAG ATGGACAAGA TNATCGAGGA CCTGGAGCTC
 TCCAACAAAC GGCCTCACT GTGTCAGACA TTGTGGGGTG GCATGAAGCG CAAGTGTACC GTGGCCATCG CCTTCGTGGG
 CGGCTCTCGC GCCATCATCC TGGACGAGCC CACGGCG

SEQ ID NO:640: (Length of Sequence = 398 Nucleotides)

GAGAAGGAGT TTCGCTCTTG TCACCCAGGC TGGAGTGCAA TGGTGCGGGC TCGGCTCACT GCAACCTCTG CCTCCCCGGG
 GTTCAAGGGA TTCTCTGCC TCAGCCTCCT GAGGAGCTGG GATTACAGGC ACCCGCCACA CACCCAGCTA ATTTCTTATT
 TCCAGTAGAG ATGGGGTTTC ACCATGTTGG CCAGGCTGGT TTTGAACTCC TGACCTCAGT TGATCTGCCT GCCTGSGCCT
 CCCAAAGTGC TGGGATTACA GCGGTGAGCC ATTGGCACAC AGCCTTATCT GCATTTTCAA ACGGGCCAGT ATGGATGGGT
 TTTACACTTA TACTNGAAAG GTCATCCITT TNAAAAANG AACCTTTAA ACCATTAACT ATATATAAAA ACTATATT

SEQ ID NO:641: (Length of Sequence = 402 Nucleotides)

ATAATTTTNA GCAAATGAT ACAAACCTNT NTTAACCAAG TAGAAGATTG GTAGTTACAG TGGAATCGTC AGGGAGTACA
 GGGCGGCCAC CACTGGAGGG AGCTGAGGCC CTGGAAAAGG AGTCTGATTC TMTGCAATTC TCTCTCTGCT TTTNTTCCCA
 GCGCGTTAC AACCGAGTTC ACGTGGGGGG CCGCAGTGCA GCGCCAGCGG TGGCAGCTCT TGGAGTCTGT CCGTTTAGTA
 TGTTTCCCCC ACGAGCGTGC CTGGGTGAGT GGCCTGGAGA GCTCCCGGTG TTAACATTTT GATCCTAGAC CGGGGGGACG
 TGTCCTAGG TAAAGGCCAT TGGGTAAACA GAGTAGATCA GGCCATGGCA TTGTCTGTC CCCTTTCACA GCAATTAAGG
 GG

SEQ ID NO:642: (Length of Sequence = 395 Nucleotides)

CTTCAATGAT GCAATTOGAT TAGCTGTGTC TTACAAACAG AACTCCCAGG ACTTCATGGA TGAGATTTTT CAGGAGCTCG
 AGAACTTCAG CTTGGAGCAG GAAGAGGAGG ACGTGCCAGA CCAGGAACAG AGCAGCAGCA TOGAGACCCC ATCAGAGGAG
 GCGGCTCTC CCCACAGCTG AGGGGCTGGG GCTAGGGGTG GGTGGAGCCC TTTTAAATA CCGTCCCTT CAACAACCTCT
 CCAGCTCTGA ATGGAGAAAC TCTCTAGENC ATCCCTCTT CTACCTCCTG CAACCCACCC ATCTATTAG GCTNCCACAT
 TCTAGGGCCC GTGATACAGG GGATGAGGGT CAGCAACCAG CAAAACCTCTN GGACTTGTG GGAAGAATTT TCCCC

SEQ ID NO:643: (Length of Sequence = 325 Nucleotides)

GGTATCTTAA AGCCTTTCAG GGATTTCAAT AGACACATTT CTTTAGCTGA AATCTATTCT CTCAGAAACT TACCCAACT
 TCTTAATAAT GINCAAATTC TAAGAAAGAT ATCATGGCTA CACAGCACCA GGNAGAGCAC ATTATTTCTC TTCACAATTC
 CCTTGCATAG CATCATGGCT TCTAAGGGC TTTTAAGTTT ATTGCTTCAA CTGATTCTCA TAAAATCTCT GAGATGCTAT
 CTGGAAAGTA TTATTATCCC CAGTTTCAG ATAAGGCAAC TGAGGTCTAG ACITGCTAAA AAATCACACA ACCAGGTAAG
 TGGGC

SEQ ID NO:644: (Length of Sequence = 373 Nucleotides)

CTTCACATCA GCAGCCGAC GAGGTGACTG AAAATCCAAA ACAGAAAATT GCAGCAGAAA GCAGTGAAAA TGTGATTGT
 CCAGAGAATC CTAAAATGAA GTTGGATGGA AAAGTTGACC AAGAAGGCAA TGATGTAAAA ACAGCAGCTG AGGAGGTACT
 AGCTGGTAGA GACACATTAG ATTTTGAGGA TGTACAGTT CAATCATCAG GCCCGAGGGC TGGTGGTGAA GAATTAGATG
 AAGGTGTTGC AAAAGATAAT GCTAAAATAG ATGGTGCCAC TTTAAAGCAA TCCTNGAAGG ANCCAGAGGA GCGAAGGATG
 CAGATCACTG CACCCGTACC CCAAAAATTG GAAAGTCCCC TCACAGGCCA TTT

SEQ ID NO:645: (Length of Sequence = 310 Nucleotides)

TTTTTTTTTT AAGACTCAAG GTAATGAAAA CTATGAGTAG AATAGTAAGG TGTGACAGGG GACAAATAAG TAGATATAAA
 ACTATGCTGC AATATTTTAG TTATTAAAGC TGGGAAATAT GCAATGTAA GTAGTGCTTG GAACCAGAGA AGGTCTATA
 TTTAGCTGTT CTCTGTAGC TAAATCTGAC AAATTGAAAA ATATCATATT CTCTGCTCTA GGTACATTTT ATGTATATTT
 TGACAGCATA TCAAATATAT GANACATTAG GTTAAATAAA TAAAATCCA GTGGGATAAA CTATATGGGG

SEQ ID NO:646: (Length of Sequence = 362 Nucleotides)

CTTGGGATTG CTAGATCAGT GTTTTAGACA GGAATGCCAA GGCAGAAAAG AATCACATAT CCAGGACCAC ATAAAANCTG
 GAGTGTATGT CATAACAAAT TINCTCTGT GCITAGAAGT TTTATGGCTT TGGATTTTAC ATTGATGTTT GCAGTCCATT
 TTGAGTTACT TTTGTATCT GATATGAAAT ATACCAAGT NCATTTAAAA AATAAGATTA TACAGTTGTT TATGGAATGC
 ATTTATGTAC ACGGGTAATC TGTTTTGATT TTGTGTATAT GTTAAACAT CTTTATTATA GTATTINIGTA AGAGTAGGTT
 AATATTGACC TTGGGCATTT TTAACCAAG GGGGGAATTT CC

SEQ ID NO:647: (Length of Sequence = 226 Nucleotides)

TTTTGGCGTC AGATCTGTAA GTTATTTGC TCAATGTACG ACAGCTACAT AATGNCCTAC ATTCATGATA TTCCATCACT
 GAGGAACTG CTAAAGATGG TCGTGTGTG AAATAATTCC TTAGAGAAAC ACGGAGCTGG AAAAAATAATC ACTGATTAGA
 CCTTAAAAAT AGTTCACTGC ATAACATGNC AAAAAGCACA AAGGCTCATT CAGAGAACAT ATTGT

SEQ ID NO:648: (Length of Sequence = 198 Nucleotides)

AACTAAAAAG TTAAACTTTT TACAAAACAA CAAGTTTTCC TTAAATTATG ATTTGTTATT ATAAAANCTA GTAAGAAAAA
 ATTCCACCAC ATGAAAGCAT TINCTAAAAT TCATACCCCC GTACCTATTT TTAANTACAG TTGGTAAATT GATTAAGCTC
 TATTINCATT TTGANIGATC ATCGGTTTTA TTTTATTT

SEQ ID NO:649: (Length of Sequence = 337 Nucleotides)

ACATCTGCAG CCATATATGA GTCCCTCAT GAGACTTAGC AACAAGGTGT GTTTTAATGT GACAGTGTGT CTGATGTGTC
 CCCAGCACAT TGGGACCACT ACACAGTGT ATTGTACAT CTGCTGAGTA ACATTGAGTG TGTGGGTAAAC TAAAGCCCTC
 AGTAATTATT TTAATTAAAT TTTTCAAGCT TAATTCTGAT CTGTACTTG CATGATTAT TATTCCTTGT GCTAAATTCT
 TCAATGTTCT TGCCTTGATT GATCTGTCAT TATCTATCAC TTAATAAAA TANTAATNC CTTTAATTAA GTCATGGTTA
 AATGAGGGAC TTGTGTT

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SEQ ID NO:650: (Length of Sequence = 286 Nucleotides)

GGGTTGAAAG GAAAGGTGAC AGGAAAGATG TGTITTAGCAT CCATGAGCAG CTGGGGAGAG TCTTTCCTGT CTCGTAAACG
CATCTGAGAA GATTAGGAAA AAAAATAAAC AGAGCATCAG TTCITTTGAAT CTAAAAGACT TINTTCTACT AAAATTTCTA
CCCTCAAAT CTCAACTAAT GAAGANTGTT TACTTTTGT TTAACCTCAC TTCATTTTCC CAATTAATA TTATCAAAAA
AGTTAGTGCA TTGTAAAATA AGNTAATAAA GGNTAACACA TTATCC

SEQ ID NO:651: (Length of Sequence = 360 Nucleotides)

GATAATGTAA ATTTTIGCTT CTGGGCTTGT CATCAGGATT GCAATTTTNA GATTAGTTT GCTAATGT TGGCCTTTGA
AAAATTATAT AACTTGGTT TGTITTTGGTT TTCTTAAGTC AAAACAAGGA AATAAAATCA CATTGCTTT CCAAGAAAAG
ATAATGTTA AGTGGTTGT TAGTGTITG TGTCTTTGGG GGTGGGAGGG GGTGTGTGGA ATACACAAAC ACACACACAC
AAACACACAC AGTCTATATA TAANCITATT GGAGCCATCA CTATATTTTA AGGAAAATGN AAATAATCTA TTGAAGCTTT
AAAATTAGGA ATTTTGTATT TAAGCTAAGG AGCCTATTTT

SEQ ID NO:652: (Length of Sequence = 353 Nucleotides)

GTTGTGGGNN CCTGTAATCC CAGCTACTTG GGAGGCTGAG GCAGGAGAAT CGCTTGANCC CTGGAGGCAG AGGTTGCAGT
GAGCCGAGAT CGAACCCTG CACTCCAGCC TAGGTGACAA GAGCGAACT TTGCCGGCAT TTACTCTCT AAAAGATTTA
ACGCAATTAC AATCAAAAA CACTGTTCAT ATATAACACT TTTTCACATG GAAATAAATT GGTGGTTTAA GGTTTACAAT
TCCTTTGAAT AAAATTTTCA TTATTAGTTA CAAATGCTA AGACAGATTG AGGTCTCAA GAAAGANCTT TGAGGAAAT
TTATGGTTTT AAAGGACTT TCACCAAATA TGA

SEQ ID NO:653: (Length of Sequence = 224 Nucleotides)

AAGACAGGGA NTACTTTATT CAAAACCCAT CACAGAAATG GACAGCTTGG GTCTGTAAAC AAGCATTCAT GTTTTAGNGC
ATAGGTCAAT AATTGTATAT GAGAGCATAC ACTGCTACAT ACAAATTAAC TGNTCAGACC ACAACTTTTC AATGTTTAAA
ACAGNATAAG CTTCCCTGTA AAAGCAGCAC CTTTGTGAC GNTTAACTT TAGTATTCCT CTCC

SEQ ID NO:654: (Length of Sequence = 353 Nucleotides)

GTCAACTCTA TTTTCCATAT GAATTATTAG ATTTGGTGT GTCTGTGAA GTAACITGAT ACGATAGATG TGTAGTATGA
ATTTTGTCCA CATGGTGTG CCTTGGCAG AACTGCACT ACCTGAAATG GTTCCCTAAT TTTTCTCTAG TATTACTATC
CAACACTTCC TCTCATAATC ACTAGTGTAT TGTATAATTG TTAAGTGTCC TTTATTCTA TATTTAAATT AAAAGAATAC
TCTGGTAGGA TTTTGAGGGC CAATAGTGT TTTCCACTGT TTGAGGTATT AGGAGGGCTA TTTACTGATA CCTGTAGTGC
CTTCCCATTC TGGTTTATCA TGCACCTCTA AAT

SEQ ID NO:655: (Length of Sequence = 365 Nucleotides)

GAAACTNACT TCACATTTCT CCAGGGAGGG ATGCTTTTGA AAACTGCTC AGTGAGATGA AGCACAGATC TGCTTTTINAT
CCCTTTTGT CTTTTTTAAA GACATAAGGT ATGTTTTGAC ACTGGAGTAT ATATGAGGGT TGCTAACGTT TAGGTTGAAA
GAGCTGCTGT TGTCCACAGC TTATTTATTT NCCACCCATT TTTGTCTCCT GGCTCATCC AGTTACATTT CCTGGGATAT
GTTTTTGGAG GTTGTCTAGA TCACGGCACT AGAGTCCCTT TGGGTTTCTC CTCCCTCTC TGTCTATTG GCCTCGCCCT
TGACAAACAT TCCCCACATT CACAACCAGG CCTTTGGCTA AATGT

SEQ ID NO:656: (Length of Sequence = 372 Nucleotides)

GTCAATGATC TGAGACCAGC CTGGCCATCA TGGCAAAACC CTATCTCTAC TAAAAATACA AAAGTTAGCT GGGTGTGGTG
GGGTGCACCT GCATTCTCAG CGACTTGGGA TGCTGAGGCA GAAGAATGCG TTAAACCTGG GAGGCAGAGG TTGCAGTGAG

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CCGAGATCGC TCCACTGCAC TCCAGTCTGG GTGACAGAGT GAGACCTTGT CTCCAAAATA AAAGAAATTT ACTGCAAAGG
GATGTTGCAT TTCAGGTGAA TGTATGTAGC CTTTCAGAGG CCGGGCTATT TATTAGATGT ATTTTATAAC TGAGGGTTCT
AGGTAAACAC AAGCCAAACA GATCCACCAG AAGCCTAGAG CTGTGGACTC TT

SEQ ID NO:657: (Length of Sequence = 334 Nucleotides)

GGTGTGGAA AAAAAACCT CCAGATAAGA TTGTGCCTGC TTCATTTTCT TGTGAGGCTG CCCAGACAAA GGTACTTTTC
CTGATTGGGG ATTCTATGTC ACCTGATTCA GATACTGAGC TTCGAAGTCA GGCAGTGGTG GATCAGATTA CCAGACATCA
CACCAAACCA TTGAAGGAAG AAAGAGGGGC TATTGATCAG CATCAAGAAA CTAAACAAAC AACCAAGGAC CAATCTGGAG
AGTCTGATAC ACAGAAATG GTTCTGAAG AGCCCTGTGA ACTCCCTGT TGAATCAIT CAGACCCAGA AAGCATGAGC
TTATTCGACG GATA

SEQ ID NO:658: (Length of Sequence = 286 Nucleotides)

ACAAACCAAC TGCATTTCTT TCTGGATATT GTTGAACAAA AATAGCATTC AGTTTACCCN CTAGTGCTAA CAGAAGNENC
TCAAGCTGTT CCCCCATCAT GGGNGCAGCC CTTAACAGAG GGCTGCACAA ATCTGCAGTG CTGCTCTGGG GAAGGCINCA
AAGCACTTTT TTCCAAGAA GGGATGCTGT TCANGTCTGT TAGGGGAAGC ACACCGNCTN TGCCTGGGCA CAGATGAAGT
GCCCTTCAAG GCAATCATCA TCTTTTTTCT AATAGGGAAG GTTTGG

SEQ ID NO:659: (Length of Sequence = 321 Nucleotides)

GGTCTTTATA GTTTCCGAG ACAGGACTGA AACTCCCTGC CTCAAGTCA TTTTCTAAG TAGCTGGGAC TATAGGCTGT
TTCTTTTTTT AAAGGAAGGA TTTTATGTT ATCATGAAGG AAAATAA ATTTGGCTAA CTTAAAGAGT TATTTATCAG
GAGACACTAT TAAAAAAGG CAAATCAGAA ATTTGGAGAA ATTTTITA ATACTGATAA TAAGACAGAA TTGTACCCTG
TAACCATAAA TATGTAGAAT TTCTACCATA TCAATAAGGT AAGATTTCT GTTGCTCCAC ATCTCTTGC ACGGTTGGGT
A

SEQ ID NO:660: (Length of Sequence = 302 Nucleotides)

TTTGTTAAGG ACATAATGTT TTGACTGGG GATCATGTT GGCTGATGTA AATATTAATG CCAAATAGG AGCTAGGATG
AAAGTAACAC TGTAATAGT AGTAGAATTT ATTTCATATT AAAATGTGTC ATGACGTAAT TTTTATGGCT TGGCTCAAGC
AACAATTTTC AGAGTGCACC CTCATTGATG CTAATCACAG AGACGTGGAT GTGCTGTTAC TGCTTTCTAA CTCGCTCCTA
TAGCTGGCCT ATTATGATGA TGAAGTGTAT AAAGTAAACC AGTATCAACG NCTAAGTCTA GG

SEQ ID NO:661: (Length of Sequence = 249 Nucleotides)

AAAAAAAAAA ACTCTCAAGG GTCTAACITT ACCCATCATA AAATAATTTT GGTGCAAGGG TAGTGGCACA TTTTATTTAT
TTGGGATACC ATGCAGATGC AACCTAGCCC CATTCTTTAT GCAAAGTAGA TTATCCGTGC ATTTCTTCTG CATTGNTAGT
GAATCCTTAC TGGGNGAAC TCATTCCATT TGGCAACAAT CTTTAATGGN CAGGCAATAT ATAACATTGC TGAAGTCTCT
TAGCACTAA

SEQ ID NO:662: (Length of Sequence = 340 Nucleotides)

TTTTTTTTTG GCAGCCTTGT AAGGAGAACT TCACCATTTT CCAGCACATC CCTATGTGTG CGCCTATTTT AATGCACCTC
TCTGAAACAG AGACCTTTTT GTTCACAACC ATAATAAG CTGGAAAGTC AGTCTTCAGG CAAGGCGAGG GAGGAAAACA
TCCCATTAGA ATTTTTCAG GAAAGACTTA TGGNAAAAA TATCTCTCTC CCACCTCCTT TTATCCCAT GAGACACAGT
TTCCCACTGT AATCAGGGTA ATATGCATTT NTAAAGNCTG ATATGTGATA CATTATGTG ATGSCAAAGA TAAGTCTGTC
TTGCATGCAG GGTACTAGAG

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SEQ ID NO:663: (Length of Sequence = 325 Nucleotides)

CACAACAATT CTATGAAATT AGCTGGGGAG ATACTGTCCT TATTTTTCAC AGCTGAAGAA ACCAAAGCTT TGGGAAGTTT
GTGACTTCTC TGAGATCACA GCTGGTGATA GAAGGAGCTG GGACACGCGC TTGGGTTGAC TGGCTTCTGG TTTTGGTTCT
CTGGCTTCTA GTGCTGGAAG AAGCCCTCTC TTCCCTTCT CTTCCTCAG TAGCATCTGA CTCCTTTCAT AAGCAAACAG
CTGTATAAAC AAAGCCCCCA TTTTGGTCAA GCACAGGGTG AATGTGATAT TTGTTCCAC AACCTTATTC TNCCTCAAC
AGCCG

SEQ ID NO:664: (Length of Sequence = 300 Nucleotides)

TGCTGAGAG AGATGATGTT TCATGGGTGA TGTCTCTGGA AGAGATTGGA TAGGACCCAA GCACAGAGCA AGAAATTGGC
TTTAGGCAAG TCAGATTGT CTATACTAG TTAGGAGTAA AGAGAAATGG ATGATACAGA TGCAGCTATG TTCGTAGGAG
GGAAGTGGAG GGAATTTCTG TGATGAGCT TTAGTAATGT AGGCAGCAAG GTCACTACT GACAGTGAGA GGAGAAATTC
GGGAGGCTG GTCACAGTTT GAAGTAATAG GTCATGGGA GGCAGATGTT TGTTGGTGA

SEQ ID NO:665: (Length of Sequence = 327 Nucleotides)

CAAATAAGAA CCCAGAGAGA GGGAGAGATT CACAGACAAT AGCTTAAAAA GTCTAGAAAT TATAGACGA TTGAGGTCAG
CAAGAAACAA ATTATTCAAT ATATCCCTG AGGGCTAGAG CCAGACTTTC CCTATGATT CCAAAATTAC TTCGCAGTTT
CATTAGGGTG AAAGGCAGTG CAGTCTCATG AGTTCAGAAA GTAAAGGTTG TTCCTTAAAA TTTAGATAGA CTTGACAACC
ACTTAGGATG GCATTTTGGC ATTCTGTCCC TGCTCATCAA AGAAGTGTCT CAAATTTGTG GGNTAGAGGA ATGAGGAGCA
AGAAGTA

SEQ ID NO:666: (Length of Sequence = 319 Nucleotides)

ATTCCCAAGG AGAGGCTGAG ACAGAGAGGC TTGAGCTGT TCCTCAGCCC CCTACCTAA CTCCCTCCCT ACTGTTGATC
AGGCTGGTCT CTAACCTCG ACCTCAGGTG ATATGTGTGC CTCAGCCTCC CAAAGTGCTG GGATTACAGG TGTTAGCCAC
CATGCCCTGGC CTGGGTTTGA TCTTAAGGTC TTTGTGTGTC TGTTCCATCT GCATGAATAC ATTTCCTTCA TTTACTTACG
TCTTAGCTTA AATGATACCT CCTCTTCTTT CCTACTGCCA TTATCTCCC TTGTCACTCC ATACTCAGAT TTCATTGCA

SEQ ID NO:667: (Length of Sequence = 288 Nucleotides)

GGTGGCAGGC TGCTTGCANT NCAAGCCAG GNGTTTCTG ATGGGTCAGG GTGGGGAGGC TGCACACCAC ACAAGGTCAC
CCTACTCTAC CTCTACCCA CCTACCCA GCGCTGAGCT CACCACTCCC CCAGGGCATG GGACTCTTGA TAATTCCAAG
TCCATGAAAC CCTACAATTA TTGAGTGCG TATGANTCCT TCTATGAAAG TACTTCCCCT GAGTGTGCCA GCGCTCAGTT
TGAAGGTCCC TTAAGTCTC CCCCAATTAA CTATAATGGG GATATTTT

SEQ ID NO:668: (Length of Sequence = 212 Nucleotides)

TCNTTTCINT TTCTTATCTA TCNCTTCAC CATGTGCTT CGGGGCTGG AACATAGTAG ATGCTCAATA AATATTGATT
GAATGAATGA ATGAATAAT CINTTACAC CTCATGCT TCAAACAGG AAAGGCTAGA TTATTTAGAA GTCTGTGCGG
GGATAATAAT NAGCTCAGTG GAAGCCCTCT AGTCTCACT CGAGTTTCTC CC

SEQ ID NO:669: (Length of Sequence = 281 Nucleotides)

ATCTTTTCAA CCTATCAAT AAGATGTAT GAAAGATTGG TTCTCTGTT TACAAGTAGT ATAGAATCIT TTTTGATCTT
TGACTCTGTG CTGCCATCT CATCAATGTT GTTGCTATTA ATATCTGTCC TTAAACACTG GATGTTGGGA TCTTAGTAAT
GTTGCTGATA ATAGGATTTT CAGCAAACT TCCATATCCC TTGAAGATAT GGTAGTTTAT ATTACTATAT CGATAACAGT
TTTGCTGTG GAGATTGAC TAGTTTAGG TGTTTGAAG C

SEQ ID NO:670: (Length of Sequence = 234 Nucleotides)

AATAAGTTG GGATATTGA TTGTTTCCTT TCTGATCTT TATGCTGACT GCAGTATCAG ATACCATTTT ATTGTTTAAA
AATCTTCCTT TTTTTTTTTT TTTTTTTTGG CATTTTGCTC TTTTGTGATT GTTTCAAAGT CAAGTTGATG GCCNCAAAT
TCCAGAGGCT AAGCAATGCA GAAGTTTCAT CTACTGGCAG CTAGTTTTAT TTCTTAAAAA TACATTAAAT TAGG

SEQ ID NO:671: (Length of Sequence = 252 Nucleotides)

CCTGAAATGT AAATTGTTTT TAATATATTT AAGAGCACAC AGAAGTCTTG ATTTATAAAA AAATAAATAT ATAACATGAC
AAATTTACTG ATGATCCTGG GGCTCTGAGG TCAAACCTCTT TAAATGATCA GTGAAAACAT AAAACATCCA TGATCTGTTA
ACACACACAG GGGCATATTC CAGTTGTAAA AAACAANTTC CTTGAAGGCT CAGNACGTAC AAAANTCAGT NTTTTNGGCA
GAAAGCACAT CC

SEQ ID NO:672: (Length of Sequence = 366 Nucleotides)

CCATCCAAT ACTTACTCAA TCCTCTTGAA ATCTGCCTTT TGTAAATGTAA CTGATAGGCC AGCGTTTTCT TTCACTGTGG
GAAATAAAGG CTACTTGGTT GCTTTAGGGA GGGCAACAAT GTCAGCTGCA TAAGCAGCAA GAATATTATA TTTNATTACT
AGTCCACCTT TAATAAAGAG AGAAACCTTA GGAATGGA AGAGGTGTCT GTTTTATATT TCCTTTGCTT TTCAACCAT
GTTTAGACAC TCTCCCTTCT AGTGTCTTGA GAACCTTCAT GGAACCTCTG TTCAGGTCTT TGACTCTCAG CGACANATGT
GGAGGTCTTT GTGGTCTTAG CTCTCTAGGC CTGAGAATCA CATACA

SEQ ID NO:673: (Length of Sequence = 349 Nucleotides)

CCTCCCATCT TGGCCTCCCA AAGTGTTAGG ATTACAGGCG TGAGCANCCA CACCTGCCTT GGTGTGTAC TCTTTTAAAT
ACTAAGTTTT TAATGTAAA TGCTGCTTTT AGATACACTG TAAAATACA CCTATCAATG AGTTTTTTTA TTA AAAACAT
TGCAATTGTA CTAGNCTTTA AATACTAAGC AATAATTCAG GCTTCAATGT TGGTTTATAG TTTTCTCATT TCTTTCATTT
AATACCTCTG TAAATGAAG CAGTTACTTC CATTTTCCCTG AGGTGAGATA AGTGCCCTGC ACAAATGTTA TAGGNCCAGT
AAGTGAGGAC TGGAGCTCTG GATCCTAAT

SEQ ID NO:674: (Length of Sequence = 256 Nucleotides)

GCACCTTTGGG AGGCCGAGGC AGTTGCTTCA CTTGAGGTTA GGAGTTTGAG ACCAGCCTGG CCAACAGGT GAAACCTGTT
TTCTCTTAAA AATACAAAN TTAGCCGGGC GTGGTGTGTC ATGCCGTGAG TCCAGGTAC TCAGGNGGCT GAGGCAGGAG
AATCACTTGA ACCCGAGGTG GGGCAGGNGG AGGTTCAGT AAGCCAAGAT CGCGCCATTG CACTCTAGCC TAGGTGACAG
AGTGAGACTC CATCTC

SEQ ID NO:675: (Length of Sequence = 292 Nucleotides)

GAAGTCATTT TAGACTCTCA ATTTTAAATT AATTTTGAAT CACTAATATT TTCACAGTTT ATTAATATAT TTANTTCCTA
TTTAAATTTN AGATTATTTT TATTACCATG TACTGAATTT TTACATCCTG NTACCTTTC CTCTCCATG TCAGTATCAT
GTTCTCTAAT TATCTTGCCA AATTTTGAAA CTACACACAA AAAGCATACT TGCATTATTT ATAATANANT NGCATTCACT
GGCTTTTTTAA AAAANIGTTT GATTCAAAC TTTAACATAC TGATAAGTAA GA

SEQ ID NO:676: (Length of Sequence = 392 Nucleotides)

ATCAAAGATT GCAAACATTT ATTTTGATCC TGGACTACAG TGTTGGGATC ATTGCTATGT TGGCTTGCTT TTNCTATCCA
AATCTGAACC CAAAGTGCAG CCTGGTGTAG CCATGCAGGA AGATATGTGG GATGCTGACT GGGATTTGCA TCAAAGCCTG
TTCAAGGGAT GGACAGGAAT AAAGGAAAAT NCAGGTCATA GATTGAGTGC TATATTTGAN GTAAATACAG ACCTTCAAAA

AAATATAATA TCAAAAATCA CTGCTGAGCT CTNCTGGCCT TCCATACTTA GCTCACCOCG GCACITGAAA TTTCCACTTA
CTAATACAAA CTGCTCCTCA GGAAGGANGA GATTACTTTA GNAAATCCTT GCAGGATGTT CCTGTCTATG GT

SEQ ID NO:677: (Length of Sequence = 333 Nucleotides)

CGCATGCTAA TTTAAAGATA TACAGGAAGN GAAAAGTAGG AGTTAAGTTG GATGTTGTTA GAAGTTGGAT GTTAGTATTA
CCTTCAGGAA CAGATCCCCA TGGCATGTCA CAGGCCTTAA TTATATACCT GGCTTTCTTA TTGTCTCCAC TTTATCATGA
GGACAAGGTC TTGGTTTCAT GGGAGGAACT TCTCCATTGA AATAAATGTC TGCCATGTCA GCACCGTTTG TNCCTCAGT
TTTAATATAA TGGACCATAT ATTAAACATN ATTAAACATA TTTTAAATN TGGTGTCACT AGGTAGATGC CCCAGNCATC
CTACTTCCCT CAC

SEQ ID NO:678: (Length of Sequence = 359 Nucleotides)

AAGGAGACAA AGAGTAGATA TGGTATCTTG GGGACAAATG GCACATGAAA GCAGATTTGG TGCTTCTTTG GTAAATGGTT
TGATAACCAA TCCCTAGGAG ATAAAGTTAA TGTGTCTTTT TTTTTTTTTT TTAANCGAAG GTCCCTTACT GGTCTGCTT
CCATGAGTAG CCGTGACCAG GGGAAAAGGG AGAGTTTTTT TTTTTTTTTT TTTGAGAAAG AGNCTCACTC TGTCGCCAG
GNTGGAGTNT AGTGGCATGA TCTCGGCTCA NINCAGCCTC TGCTCCAG GTTCAAGCGA TTCTCNTGCC TTAGCCTNCC
GAGTNGCTGG AATTTCAGGC GCATGCACCA TGCTGGCT

SEQ ID NO:679: (Length of Sequence = 339 Nucleotides)

GGTGGCACAT GACTATAGTC CCAGCTACTT GGGAGGATGA GGTGAGAGGN TCACITGAGC TGGGGAAGTA GAGGTTGCAG
TGAGCTGAGA TCTCACTACT GTACTCCAGC CTGGATGACA GAGTGAAACC CTGTCTCAA AATAAATAA GANAGAAAGA
NTATAAATAT TTTGTATCAA TTTTCAGCTT TTACAGTCAA TGAACTTAAG TCTTAATTTT GGTACAGAA TTAAATATTA
ATATTAAACA TCAAGGCAAT GTAAAAGTAA AGTACAGTTG ACTGAAGCTG GGACACAGAC GGNAAAGAGA GTGAATGAAA
AGAAGGATAC TAATATTCT

SEQ ID NO:680: (Length of Sequence = 356 Nucleotides)

CTGTATAATC AGGTATATCA CAAAGTCTAT AGTCTCTGAG ACATGGGTGA GTAGGTGTGA GCACCTGGTG AAACAGGTCA
GAGGAAAAGC AAGTTGGCGT TGGAGTCAGC TGTCAAGAGA TAGATCCGTG ATGGTATCGA GATCACTACA GACAGGTGCT
GGTCACCTAG TGTGTCCGC TGAAATTTGG AGGGTTTAAAT TTTTAAATCCA AATACCATAG AAATGGATAT GAAAAGATGG
GTGACACATG CTGCACGTTG GGAAGTGGGG ATGACCAGGT GCTTAGTTGC ATGGGAGAGG CCACAAGTGC TTGGCAATGT
TTTCGTNGAC TTAGCCTCTC ATCTCAGGAA TTAGCT

SEQ ID NO:681: (Length of Sequence = 345 Nucleotides)

GGCCTGGTGT TTGGCTGAGG TGCCTAGGA CCCCTGGCCG TGGTGTACTG GATGGCATCA GTTCTGATGG GTCANATGTC
CATTCTAACA GGTGGTGCT GGAGAGGGAG CAGTTGTAA ATATCTTTAC TATCTCCCCT NCTCCGGACA CCTAGATGCC
CAAATATACA GCACGTAGTA TGGAGGCAGG CCCTTTTGAT TGACATCAGA ATCAGGTTTG CAATGGAATA GGAGCTTTCC
TTCTCTCTGT CACTTTAGCC CCAGGCTCCA CCTCANAGTC TGGAAATGCTC ATACCTATGG CAGGTGACCT TGTGTAAACAG
NTTGGGGTAA ATGCCATTCT GTCT

SEQ ID NO:682: (Length of Sequence = 302 Nucleotides)

CTCAGACATA TCTTTTTTTC TCTAGCATG ATGCCACCC CAAGGTACTT ACACGTCTTC AACAACACCT TCCGGACAGC
TTCTGGTAT CTGTGTGGC TATTCTGGTG CAOGGAATAA TTCCATCTT TTGAGATAAT GGGGGGAAGC CTAGTAGGCT

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CTGGTTCCTT CTGGTCTGAA ATTAGAGTAG ACTCGTTCCTG AGTACTTGGC AAATGACTAT TTGATTCTCT GATTCCCTGG
NCTCCATGCT CACCAGATGC ATAGCAGGGA TCTCTCCTAG NCACTCACAT CCAATTTTCA GG

SEQ ID NO:683: (Length of Sequence = 329 Nucleotides)

GATTTTAAAT AGTTAAAACA TTTTITTTAA TCCATAAGTA ATTCTTACTC TACTCATTTA TACACACATA TACTCACATG
TACACAGACA TACCTACACA CACACTTATA AATACATGTA TACACAGAAT ATAGTAAGGT CTTTATATCC TTTTCAATGA
AATAAATATT GTATTCTATA TTTAGNATAA ATAATGTTGA AAAAGTGATT TTGGAGAAAG GTTGAAATGA TTGAGTCTTA
AGTGTGTCAA TGTATAATCT ACCCCTTTCT AAACATCGTG TTTTAAGTAG TCATCTTACT TCAGAAATTA GAGGCTCAAT
GTGTTTAGG

SEQ ID NO:684: (Length of Sequence = 281 Nucleotides)

AACATGGCTG ANTTGAGATT AACTGCCAT GATACATTGN CTGACAGCAC TTCACATTTT CCTGAGTTG GGGACAGAAA
TCACACTGCC CAAATACATT ATCTGATGGC TCCTCATGTT TCCCAAAGT TAGGAAAGGA GGTCTATAT ACATACATGC
ACAAGTGCAT ACACACACAC ACACATACAC ACACACACAG TGCTAGATGA GATGTTGANT GNCATAAGGA AATGAAAGTN
CCATCTCTCT NTTCCTACC CCTGCATCT GTCCCTTAT A

SEQ ID NO:685: (Length of Sequence = 324 Nucleotides)

ATTTTAAATA ATTTTAACT AGCTACAAA TGTCATCAC TTCACAACT GACAGAGGAG ACAGGAGGAA TTTAATATTA
CATGCTATAA TGATATTAT CTCACAGTT ATATTTCATT CATTTATATT ATTTTITAA AAGGTTCTT TATCAGCTAC
TAAACATCTC AGCAATTTGG TGTCATAGC TCTAGATTAA GCAACAAAGN ATTGTACTGA TAACAAACCA CAGGGGAAAT
GGTGGTTAGT AAGAGTCAGC CTTATAAAAT TTACATCCAC ACTGTTTTCA CAGCAAGNTT GCTCTCTCCA AAACGGTGGN
CATC

SEQ ID NO:686: (Length of Sequence = 380 Nucleotides)

CGAGGAGGAG GAGGAGAAAA TTCCCCAGA TTGGGCGAGG CCCGCACCCC ACATTCCGTC CTGTTTIGAG AGGAGGAGGG
AAGAGAAATA AACGTGGCAG CGCATAGAAG GCCAGCAGGG AGACTGCTTT CCAGACACCT CCGGCCACA CAGCCGTTCA
CCCCCGTTT TTTAGTCTT GGAAAAGGAA TTGGGCTCTG TTTTCTTTT GGGCTCTGTG CAACTNCAGC TACAGTGGA
AAAAGCAAAC TGCTCTTGAT CCCAGGCCCT GCCTAAGCCT CAGCAGAACT TTTAAGCCTA AACTTNAAGA GCCTCACCCG
GACGAGCAGG CATNCCTTAA CCTTAAAGCA ATCCAGTTTC ACGGCCTGGT TCAGTGGAAAT

SEQ ID NO:687: (Length of Sequence = 305 Nucleotides)

GACACTTCCC CTCTTTTATG GAAGCATAGT AAGATTTTTC CTTTATGGCG ATCATGATGG AGAAGTATAT GCTACAGGAG
GNGAGGTTCA AATTGCAATG GAACCTCAGG CACTATATGA TGAAGTAAGA NCTNTGCCAA TTGCAAAGCT GGATAGGACA
GTGCTGAGA AAGCTGTTAA AAAATATGTA GAAGATGAAA TGSCAAGGCT CCTGATAGA TTGTCAGTAA CTTGGCCTGA
AGGAGATGAA TTATTGCCTA ATGAGATTAG GCCTGCTGGA ACCCTATTG GTGCGTTAAG AATTG

SEQ ID NO:688: (Length of Sequence = 390 Nucleotides)

GAAGTCATAA GGCCTAAATA TTAATCCAGT CTGTGACAAC GACAAGGTGA ATACAAGCCA GTCTCTACTT CTCTGGGCCT
CTGTTTCTG CACTTATAT AAAGATTGGG CAAGATGGTC TAACITAAAT TTTATGATT ACTAACITGA TTTTGTATGG
GGCAGATTTT NCTTCGATGA AATATTACA AATAAGNCAC TCAAATAAAT CAGCAATGGG GTGCAGATGA GGAATACCGT
TTCTACAGCA AAATATGGGT GAACTCAGTA AGTGTAGENA CACAGAAGTT AATGCTGACC TCTTGCATAG CATGTATGGG
ATATTAAATC ATTTCTGCC TTCCATTTCA GGGGTGAGGG AGGAACAGCT GTTCTGAAC TCTTTAAGG

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SEQ ID NO:689: (Length of Sequence = 315 Nucleotides)

GATTTAAGTG TTAGCATTTT TAAACTTGAG ACTCTAACAG TAAAAATAAA GTAATCTGAA ACCTGTTTCC ATGGGTAAAA
CACTCTGCCT GGTATTCTTG TACACAAAAT TTACTAAATA TGGAATATC ATAAAATGAA AATATCACTC CCTTCAATTT
CTTTGGCCTT CACAAATCA ATGTGACTAT GATCCTTTT AATAATACIT TCAATGACAT TGTGCTTCTT TAGAAAAATC
ACTTAAGTTG TAGCATACAA TAGTTAACAT TAGTCTTTT ATTGCTATGG TATATGCTAA TTTTITTAAG AGGGG

SEQ ID NO:690: (Length of Sequence = 291 Nucleotides)

TTAAAATACT CCATATATTT NAGAAGCAAT TGAAAATGCA TCCATGATG TNATTGAGC GTTACTAGAA ATTTATTTAT
ACAAATCCAT ATTAATGTGC TAATAAGTGA CAAATATATA TATAGTCATG CACTGAATAA TGATGTTTTG GTCAACGATG
AACTGCACAT ACAATGGTGG CCCCATAGA TTAAAATAGA NCCAAAATTT CCTATGGCCT AGTGATGCTG TAGCCATCAT
AATGTGGTAG TGCAACCCAT TACCTTTTCT ATGTTTAAAT ATACAAATAC T

SEQ ID NO:691: (Length of Sequence = 451 Nucleotides)

TTGAGCATCC GGAATATGGA GAAGTAATTC AGCTACAGGG TGACCAACGC AAGAACATAT GCCAGTNCCT CGTAGAGATT
GGACTGGCTA AGGACGATCA GCTGAAGGTT CATGGGTTTT AAGTGCTTGT GGCTCACTGA AGCTTAAGTG AGGATTTCTC
TGCAATGAGT AGAATTTCCC TTCTCTCCCT TGTCACAGGT TTAAAAACCT CACAGCTTGT ATAATGTAAC CATTTGGGGT
CCGCTTTTAA CTTGGACTAG TGTAACCTCT TCATGCAATA AACTGAAAAG AGCCATGCTG TCTAGTCTTG AAGTCCCTCA
TTTAAACAGA GGTCAAGCAA TAGGCGCCTG GCAGTGTCAA GCCTGAAACC AAGCAATACC GTCATGTTTC AGCCAAGCCC
AGAGNCCTAA GGTTTACAAA CAACTATGG NCCGGAACCT CCTCAAGTTC T

SEQ ID NO:692: (Length of Sequence = 363 Nucleotides)

GATTTTINTG TTATTGATAT TAGAATGTT TAAAATTAAG ATATTAAATC TTCATGAAGC TGAGTGGTGA GCACACCAGT
TTTATATTCT CTCTATATAA CTTTGTGTAT ATTGAAATG TTTTCTCATA AAAAGTATTT AAGCAAGTTT AGGAAAGAAT
ATTGATAAAT GAAATCTAGA GACCATCAA AGCCAATTT ACCATCACAA AGTATAATTG TGTTTCAAAT ATAATTGAAA
TTGTGTGACT GTTGCAATAT CTCTTTTITG TTGTGTGTTA TGAAAGCATC TTAAACAGTT GCCTTTTCAA GCTGTTATCT
TTGATANTAA CATACTTAA CCTAACATTG TGGACTTCTG TTA

SEQ ID NO:693: (Length of Sequence = 269 Nucleotides)

TTAAGGGTCC CAAGACTGCT CTAACAACAA CACCCATTT CATAAATATG GNTCAATAAA CACTTATTCA TTCTTTTATA
TTAGACTCTA TTGTTAGAAT TGTTTLAGGT TTATAGAAAA ATTGAGCAGA TAGTACAGAA GATTGCCATA TACCCCTCAC
CCACAGAATT TCACAATTA CCCTGCGATT AAAGTCTAAT GTTAATATGA TATATTAGT ACAAGTAGTG GGATTATATT
GATACATTAT TATTAATTAA AATCCNCAA

SEQ ID NO:694: (Length of Sequence = 330 Nucleotides)

GGCATAGTCA CTTCCAGACA TGGTTCCTC TCCATGTGGA GTAGGTCAA GTCTCCGTCC TCCCTGGCCA GGTGGAAGCT
CCAGAGGGAC ATGTTTCAGC TTAGTACAAG GTGGCTGACA CTAATCCTCT GTAGGAAGAG GCTGGCTGGA GGTGAGGGCG
CCCCACTCAG CCGTACCCA TCAAGAAGTA TTCAGAAAGG ATGTCTCTGG CATCCACAAG ACTACTGGGC GAACCACT
GCAAAAATGA AAAGTAGCGT ACACAATTTA AATTGGTCTT AAACAAGCAA ATAATCCAGC CATTTGGTAC TCTGGGAATC
TAGAGTGCAA

SEQ ID NO:695: (Length of Sequence = 344 Nucleotides)

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CAC TGTGACG GATGAGTGGG TATTTCTTTG TACCTTGAGC TCTTCATCC TACCTTGGTG GTCAAATGTG AGAGCAAGTG
 CTTTGGGGCT CAGAGGGCAT CACTCCAAGC ATTCGTGATG GAGTCTGTTG TGGTGAATGT NCTTGCTGGC ATCTTGATCA
 AGGACTTTGT CATCATTAGC CATCAAATGC TTGTTGGTCC TTCTCAACCC TGTAAATGTTG ATACTTAAAA AACTGGAAAC
 ATCCTGACAG AAACAGTCGA GAAAGTGGTT GTGTGAGCTC TGGTTATCGC ATTACAGTTA AAGTTGGCAG ATAGGTTCTG
 TATTCAGTGC CCCATCAAAA ACAG

SEQ ID NO:696: (Length of Sequence = 324 Nucleotides)

CTTGAACGTG GCAGATAAGC ATTTTGATAT GCTGCTGGAT TCAGTTTGCC AGTATTTTAT TGAGCATTTC ACATCGATGT
 TCATCAGGGA TATIGGCCCTG AAATTTTGTG GTTGTGTGTTG TATCTCTGCT AGGTTTGGT ATCAGGATGA TGCTGGCCCTC
 ATATAATGAC TTAGGGAGGA GTCCCTCTTT TNCTATGTTT TGAATAGTT TCAGAAGGAA TGTTACCAGC TCTTCTTTGT
 ACCTCTGGTA GAATTTGGCT GTGAATCCAA TAGACACAAT AAAAAAATGA TAAATGGGAT ATCACCCTG ACCTCAGAGG
 AAAT

SEQ ID NO:697: (Length of Sequence = 341 Nucleotides)

AATTAATCAA TCAGCCATTT TGGTGGCCGA AATTTATAAG GCAAGTAATA CTTTGTAGTTT CTTTGATAGA CACCATGATC
 AGAAACATAG TCTCTTTCTT AAAGGGAAAA TAGGAAGTCT TCTGAGTCAT AACAGATGCA TGCATAAATT TCTCTGAGTC
 TTCATAAGAA ACACAAGCAA GATTTACAG AGGCAGTGGG ATTTGAACTG AGTCTTGAGA AATAAGCAAT ATCTGAACAT
 GTAGAATGCA AAATAAAGGA TAAGCAAGTG CTAATGCCCA GAGGGGTAAAT ACATATTAAA TANCCANTAA CCAATTGCTA
 CTTGTGTTTC TTACTACTAGA A

SEQ ID NO:698: (Length of Sequence = 317 Nucleotides)

GCAAACCAGG AGAAGCAGAA GAGCAGGGTA AACCTGGGT ATAATTTGTC TAGACCCCCA TGCTCTCTTT AGTCTGAGTT
 CTGACATAAT TAACGTCTTA TGAGATGTAC TGGGCTTTTC CTCATTGCTT TTTGATGCCA CCTCACTAAT GTAAACAAAA
 CATTCAATTTT TTCATCCTAT TTTTCTTAC AGCTGCTTAG CACAGTCTTT ATGAAAAAAT GAAGCCTTGA AAATGGTATA
 TCCTCTCGAC AAAGCTAAGC CTGACAAGTT GGCTGCATTA CCTAGGAATT AGAGAAGAGC AAGGGCAGAT GGTGGGG

SEQ ID NO:699: (Length of Sequence = 385 Nucleotides)

ACCAGGAGAT GGAGGTGCTC TAGACTGTGA TGCTGGGAAA GGATTGTGGG CTAGAAAAAG GGCTCCCTAG GGCCGGCATA
 TGGGCCACTG GGTGGAAGAG GGGCTCTGAG ACCCTCACCC TGGAGCAGGT CATCACCCAC ACCGAAGAAT GAAGCGTGAA
 TTCGGTCACG CTTAAAATGT TGAATTGTTG GCAAAAGCCC AAGTTAATGA AATAGCATGG AAAATGGATG TGATGAGATT
 TTTGAATTGT AATTAGATTA ACATTGTCAC TAGTTATCAG TCTGATATAT CTTATAAATC AAACGTTGGG TTGATTTATC
 TTTTATCACT TCTAGGNCCT TACTCCTAAC AGTAACTCAC AAACCCAGCC CCAAATCAGA GGCTT

SEQ ID NO:700: (Length of Sequence = 315 Nucleotides)

ATCAGTTGGA TTTGCAGAGG ATTGGAAGGC AGCACCAGGC AGGCTCAGAC TCACTGCTGA CAGGAATGGC TTTCTTTAGG
 ATGAAAGAGT TGTTTTTTGA GGACAGCATT GATGATGCCA AGTACTGTGG GCGGCTCTAT GGCTTAGGCA CAGGAGTGGC
 CCANAAGCAG AATGAGGATG TGGACTCTNC CCANGAGAAG ATGAGCATCC TGGCGNTTAT CANCAACATG CAGCAGTGAT
 GCGGCCAGGC TCTTCAGGNT GGGCCTGATC CCNCACTGGT GCTTACINTG CTGACTGTGT ACTTATCTTC CCCAA

SEQ ID NO:701: (Length of Sequence = 387 Nucleotides)

GGCAGGAGAA TCGCTTGGGC CCGGGAGGCA GAGGTTGCAG TGAGCCAAGA TCGTGCCACT GCACTCCATC CTGGGCAACA
 GAGCGAGAGT CTGTCTCAAA AATAAAAAAT AAAAAAATAA GGTAGGTCTT TTCATCATTG TGTTTTCTAG CATGTAGCAC

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TGTAACCTCC ACCTACTAGT AACTGAAAAC ACGCATGTGG GAACATTGCA CAGATGGATA GATGCAGAGA TGAAAGAAGG
 AAAGCTAAAA TATTTNCCAC GTGAAAACCA TGCATCCTGT TCAGAAACTA ATTCTGCCCTT CACGCCCTCC AGGAGCATGG
 GAGGGGTGTC GTCCTGNNCC TTTTGIGGAT GAGGGGGACC ACATGGTATT TCTACTGAAA GAGTTTTT

SEQ ID NO:702: (Length of Sequence = 397 Nucleotides)

CATCAAAAA AAAAGGAGCT AACTAGATGC TGTCAATAAG AGACTCACTT TAGATCTAGA GACACAGGTT CAATGTAAAG
 GGATGGAAAA ACATATTCCC TGTGGAAATC CCAATGAGGG TGCTATGGTT TTGCATGTGG TTTGTCCCCA CCAAACTCA
 TGTTTAAATT TAATTGCCAA TGTAAATGGTT CTGGGAGCCT GGGCCTTAAG AGATAATTAA GATGGATTAA TGTCTTTCCC
 ATGAGACTGG GTTAGTCGAG ACTCTGCAA AAGCATGTTG TCGTTAAGTG GGTCACTCCTC CTTTGTCTTG TCTCTTTTAT
 ATACACTTCT TTCCCTTCT ACTTTTCCAC CCTATTATGG AAGCACCGTG AAGCCCTCAC CAGATGCCAC CACCATG

SEQ ID NO:703: (Length of Sequence = 374 Nucleotides)

ATACAGGGTT AGACCAAAGA GGAATTCAA TGAGGCCTGA TGGATTTATG GACCAGAACA ACAGAGGGGT CTTGAAGGAA
 GGAAGATATA GAAAAGGCAA GGTGTGTGGT AGAGAGGAAA TCCAGAGTT TTAGCTCTGG GAGGTGTAAT AATTTCAAAA
 GAATAAGTCC AGGCCTGGCC ATGACATGGG AAGCTGAATC TCTGCAATGT TTTTCAAAT AGCATAATGG ATATCTTTGA
 CTCCTACCCT GAAGCCAGAA AATATTAAAC TTGCATGTAT AATCATACAA ATGTATGCAT ACCTATTTAT ACATACATTT
 ACATATTTTA TACTTATGCT TTCATATATT CTACGTGAGG TACAATATAC TCCA

SEQ ID NO:704: (Length of Sequence = 422 Nucleotides)

GGCAATGACA TAGAGATGAT AAGAAACAAC ATGGTTTGGT AGAGGGAACA TTGATTTAG ACTCTGCCCA TTTTGTAGCTG
 TATGACTTAC ATAAGTCATT TTGTGTCCAA GCCTCATTTT CTCCCATATG AAAAGTGAAG GGGTTGGATT AAATGACTAA
 AATCCCCCTC CAGCCCTATG AGCCCAATGT ATTATGATCT CTGCTTTGTT TCCTTCTTAA GAGGCTTCCT ACTATAAAAT
 GTGACCTATT TACATTTTAA GTTGAAGTAG CCCACAATAA TGAATAATCA NITTAGATTT TCCTCATCTC CTTTGGGAGA
 AATTAAATTC AAGCCTCTAT TCATTTGATG TTTTACAACA AGCTTCAAAG TTGGGCCATG GTTCATTCAC AGTTTTGATA
 TTTTGAGGAC ACCAATAAAA AG

SEQ ID NO:705: (Length of Sequence = 229 Nucleotides)

GCTGCGGNTC ATAACAGCTG GACTCAGCC GNTGACAGAG TCTTGATCAG TCCTCTGGGA ACTAGACGTC AGGCTCACAC
 CACTGTCTGC GCTGATCTGG GNCCTTTTCT CCTCTGCTC ACCAAGGTCA AAGACAGGTT TGATTACTTC AGGCCTCTGT
 TTTTCAAAG NTTTTTGCTT TNNCACTTC TGGTGCTGT TCCACAATTC AATAGATGCT ATAAAATTT

SEQ ID NO:706: (Length of Sequence = 255 Nucleotides)

GAGGACTGIN TACCTCAGTC CTCTCTCTAA ACTCCTCAGC CTCCCAACAG GGGCCTCCTC ACCTGGGTTT TGAGTGTGTA
 CCCCTTTTAG AGAGTGAGAT GCCACCCGGG CAGCACTCGT TAAAGCTGGC CAGCACGAGT GACTAAGGGG AGAGAGCATG
 ACATAGACCT GGGTGGCAAC GGGGACCTCT GGAAGCAGGT GGGAGTAACA NAGGAGAGGG CAGTNGAGGG TAGAGGAAAA
 GGACCTCCAG AGGTT

SEQ ID NO:707: (Length of Sequence = 324 Nucleotides)

CCGNGAGTGT GCCACTGCAC TCCACCTTGG TGACAGAGTG AGACTCCGTC TCCAAAAACA AAAAAACAA AGTTGAACTA
 TAAACTGAAT TCCTCCAAG GTTAGTTTCT CCTATGCCCT GGAATGAACA AGGACAGCTT GGAGGTTAGA AGCAAGATGG
 NGTCAGGCCA GATCTCTTTC ACTGTTAACA TTTTCTCAGT TATAATTTTT GCAAATGTGG TTTTCACTCC TGCATCCATA

224

ATACCTAGAA ATTTTGATAA ATACTTGTTA AACAAACAAA AATAAAACAT CCACAGCAAG GANTCGACTA TAAGGCGTTG
GTGG

SEQ ID NO:708: (Length of Sequence = 325 Nucleotides)

GGGCTCATAC ACAGTTTTAT TTCTGTGA TTTTACAGAC ACTCCATCCT GCAAGCCCAT TCCCTTGGA AACCAGAAA
GAGTGGGCAC AGTGCTCCCT AGAGGAATAG AGGGGACAAG ATGGCTGCCA GGGAGAGGGC AGTTGAGGCA CTTAGGGATT
TACTCCGGCC CTGATGGAAG ATCTGGTGCC CAGGGTAGGG GGAGAGGGCC TGGGCTGGC TGGAGCCTCC TAGGTATTTT
CCAGAAGCCC CTTAGGAAC TGTCACCTGG ACTCCAGCAC CACCCCTCGT CATGTTGTCA CTTCTGTGG TGGCGGAGC
GCAGG

SEQ ID NO:709: (Length of Sequence = 264 Nucleotides)

GGGCCCCGTT GCATGAGGCA CTTGTCAA ATGAGCAGAT ACGTATGAGC ACTGAACTCT TGAGTGAATC AACCAGAACT
AAGACCCAGA TCCAGCACT CAGGAACCTG CTCTGAATTT CAGTTTGACA ACAGAGAAGT AGAATATTTT TAATTAGCTA
ATATATATAC ACATTTTTTA ATCATCCAA ATTACAGGCA AATCACTTAA GGTCCCCAGC ACTTTACGNT GNAAGGTCAG
AGAGANCCCC ACAAAAAGG TGTT

SEQ ID NO:710: (Length of Sequence = 366 Nucleotides)

ATTTTTATTA TATACATATC AGTACTCACA ATACGTTGCT TATTTAAGAT GGCTGTTTAT AAGTATAAAG CAGTTTGAGC
AACACTGATT GTGCATTATT GTACTTCAGA TGAAAAATCC TTACATGCGG AATCAATGTC TTTTAAATTT TCAGATAAAG
AATTINCATT TGAGNGACA TACAATTGTA AGTGCTCATT TTTTGTCAAT TTTAAGACAC CATTATGTTT AAGANGGATT
AATTTNCCA TAAAATTACA AACACCTCC ATGCTTGAC ATTACATGG AAAGGGCAGC ATAACCATTT AATCATCCAA
ATGCATATCA GAGCAAATC CTAGGCCTT TAGGTGTGAG GGTGGA

SEQ ID NO:711: (Length of Sequence = 216 Nucleotides)

GAAAAGCAGA AAAAAGTGGG GAAGATTTTC TATCTGAAC TTGTGAGCTG GAGAATTACC ATTAGTAGCC CACTAATAGG
TTATGGCCGA TGAGTCCCTT CATAACACAC TGAGAGCCAC TTTTGACACT CCCAGAAAAG GCAGGTTAAC AAAACCCCTT
GATGGAAGCT TAGACCCTCA TTGCCAGTG TACCAAGCC TCTTTGAACC TTGCTT

SEQ ID NO:712: (Length of Sequence = 276 Nucleotides)

ATTTTTTTCC CATAGCAGT ATCACTCTCT CATGTGTAC CTGCTACACT AGAATTATGA CCCCTAAGAG GGAAGAGACT
ATGTCAGTAT CATTGATTCT NATTAACACC ATTATTTAGA ACCATGCTTG GCTTAAAGTA GTAGCTGCTC AGTAAATATT
TATCTATGIG TGAATTTTTA AGINCTTCCT TTATATTGAN TTAAATTAG TCTCTGTGT GCAGCAGTCT GGGTTGTCT
TATGTTGAAA TACTTATGTA GACTTCTACA TACATT

SEQ ID NO:713: (Length of Sequence = 354 Nucleotides)

AAACTTTACA ACCTGCACAT TTGTTATGCA TACTAAATGG TGTGTTAAAA TTAGGGTTTC TTTGCCTCTC TACACTACAC
TAATCTGCCT AAAGGTGGTT GTTTCATAIT TATAATGCTA ATTATCATAC CTACCTACTT TAAATTTTAG GTAGAAAATT
ATCTGATTTA AATACAAACA TATTTTCTC ACATTGAGTA ATATGCATAA TGTAGTTCCA AATGTATTTT ATTACTATAG
TCACAATATC CAACTAAAAA TTACGCTATC TAGAATTGTA CCANCCAAA TCTGTATTG GCAGATCTTG ACAGGCTGGA
CCTGCAAGNA TGTGCTTGG AATTTTAAAC CCAT

SEQ ID NO:714: (Length of Sequence = 349 Nucleotides)

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CAGTAATTCT CTTACATCCT TCCCAAAAAT CAGTGTCTAG GGACTAGTTG ATCTGGATGA GTTATACATG ATATTTGACT
 TTNCATAAGT AGTGGGAAGGT TTCACTAAGT AAAGATCTGA GTTTCCTGGT ATCTGACGTT TGTATACAGA TGGTGTCCAT
 TTGCTCAACC AGACAGGAGT TAACTTGTAT TAGAATTGTT TTTNCTAAAG TNATGTTACC TGAGAAATTA AGGACTGCAC
 CTGGTTTAAAT GTTGCTTCAC TTATCCACC CTACAGAGAC CAGCAAGGTT CTGCCAGGCC TCGAGCATCC AAGCATGATT
 TTCCTGTGAC AAAATCTAAA AATCCAACC

SEQ ID NO:715: (Length of Sequence = 302 Nucleotides)

ATATTTGAAA AGATCTTCAC CAAGATATA TGGATAGTAA GTAAATATAT GAAAGGTTTT CACTGTTAAT GATTAAAGGA
 AATGCAATCT TGTACATGAA TGTTTATAAC AGCATCATT ATAAGAGCCA AAAGGTAGAA ACAATCCAAA TGTTTCATCA
 CTGATGAATG ANTACACAAA ACATAGTATT ATCTATATAA TGGAATATTA CTTGGCCATA AAAAGAAATG AACTGGGCCA
 GCGCAATGA CTTACGCTG TAATCCAGC ACTTTGGGAG GCTNAGGTGG GCGGACTGCT TT

SEQ ID NO:716: (Length of Sequence = 314 Nucleotides)

GTATTTTTAG TAGAGACGGG GTTTCACCGT GTTAGCCAGG ATGGTCTTGA TCTCCCTACC TGTGATCCG CCCACCTCGG
 CCTCCCAAAG TGCTGGGATT ACAGGCGTGA GCACCTGCGC CCCACCCCAT TTTGGTGTGA TCTCAGCTCA CTGCAACCTA
 CCCCTCCCAA GTTCAAGTGA TTCTCCTACC TCAGCCTINT GAGTAGCTGG GATTACAGGG GTCTGCCACC ACGNCTGGCT
 GATTTTCCCTA TTTTINAGTIG ACACGCAATT TCACCAGGNT GGCCAGGCTG GTCTCGATCT CCTGACAAG AGGG

SEQ ID NO:717: (Length of Sequence = 279 Nucleotides)

ATAAAAATGC TACAGATTTT TGTATGTGA TTTTATCA TGCAATTTCA CTGAATTTGT TTTTCAGTTA TAACAGTTTT
 CTTATGGAGT CTTTGGTTTT TNCCAAATAC AAGATCATAT CATCTGCAAT CAAGGATAAT TTGACTTCCT CCTTTCCAAT
 TTAGATGTCC ATTATTTTTC CTCCTGTCTG ATTGCTCTAG CTAGGATTTT CAGTACTATG TTGAATAACA ATGGTGAAAG
 TGGGTATCCT TGTCAATTC CAGGTCCTG GAGGAAAGG

SEQ ID NO:718: (Length of Sequence = 161 Nucleotides)

AAGAAAAAAA CATAAATAAT ATTAGAAATG GAAAAGTTAT AAATCAACTA CAGCAAGGNT TTAAGACTAT TATGAAACAA
 ACCAAGTAGA AAGTAGATCT GCCAAACAAA AAAGGAAAGA NACTGTTTTCT TTCATAAATA ANTGACAATG GGGGAAAAAG
 A

SEQ ID NO:719: (Length of Sequence = 220 Nucleotides)

GACAGAATTT TTTTTTTTTT TTTTTTTTGA GACAGAATCT CGCTCTGTCA CCCAGGCTAG AGTGCAATGG CGCAATCTCG
 GCTCACTTCA ACCTCTGCTG TCACAAATAA ACATCAGTAA GAGCCAGCAG TTGCTCTAGG ATCTCAGTCA GCAAGCTTGG
 GGGCTGTCTG GAAACCAGCA GTCACCTGTT TCTCCCTCTC CCAGCCAGG GCTGACCCCT

SEQ ID NO:720: (Length of Sequence = 347 Nucleotides)

AGAAATGAAA GCTACATTAA CGAAAAAGGA ACTTAGGAAT GAGGTCAITTA AATATAACTA ACTACATTTT AAATACGGAT
 ATCATATATT TCTGATTAG TATCAGGTAA ATATCTAGAC TCTATCCTG AATTCCGGTC TCAGATAAAA AGGTCAGAGA
 CAATTACAAG GAAGATGCTT CATATTATCA GGTCAGTATA TACCTAATTA TGTGCACTGG AGAGTAATTT ATTCTTCATT
 ATCAATTGTA AACATTGTTT TTTACATTT TTGTAGTTGT CCATAATGTA AGCTTGTGGG TTTGATTATT GTTTTCACA
 CTGGATCCAG CTGGTTTAAA CCTATTT

SEQ ID NO:721: (Length of Sequence = 313 Nucleotides)

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AAAAGATTG AACAGATAAT TCATCCAAAA AAAATATGGG TGGGAAAAAA AGCACATGAA AAGATGCTCA ATATCATTAG
 ACATTAGAA AATATAAATT AAAACCACAA TGCAATATCA CCTCGTATCT ATTAGAATGT CTAATATTAG CAAGACTGGC
 CATATAGAGT GTTGGTGAGG ATGTGAACAA CTGAAACTCA TACACAGTGC AGGTGGAAAT GTAAATGATA CAATTTTTTT
 GGAAAAGAGT TGGCTGTTTC TTCAAAAGTT AACATTACA TCTGCCATAT GNTCCAGACA TTCCACTCCT AAG

SEQ ID NO:722: (Length of Sequence = 266 Nucleotides)

ATCGTGCCAC TGCACTGCAG CCTGGGCGAC AGAGGAAGAC GCCATCTCAA AAACAGAAAA AAAAAAAAAA AAAAAAAAAA
 AGTGCAGCTC TCTAATTGGG CTCTTTTACT TACTATTTAT ATAATAAAG CCACGTTCTT AGGCTGTATA ATGGGGTTAA
 TCATAGTAAG TACCTTGTA AGTTACTGTG ATAACCAAAT AAGTGANCAT AAGTAAAGCA TTTTACATGT GTGCAGCTTA
 ATAAGTTGGA GTTGTGACTA TTATTT

SEQ ID NO:723: (Length of Sequence = 370 Nucleotides)

ATTATTTCATG AAATAATCCA TGTAACATCA CTTAGCACTG AGAGTTAACA AAGGCAAATG TTACCTGAAT AGGAGGAAAC
 AGAGGAAGAA CAACGAGGTC TCTTTTATCT ATGCTAAGCT TTGCTGAAT AGGAGAGAAA TGTGTGGCCT GTTGGTGAAT
 TTATTGCTTT GTGGTAGTAA TGGATTTTCC TAAAGCTGTT TCCCTCTGAT CATTATAAT CCTGTACAG CAAAGGACTA
 TTGTCCTTTG GTATGAGTAA ATAACCCTGT TGGAAGCACC GCTTATCTTC AGACCACAGC GCATACTTCT TACTGGAAAA
 TATAATGCAG GTGCCAACAC CCAAAGGGCA TGACCAGGGG TTCCCTTCC

SEQ ID NO:724: (Length of Sequence = 478 Nucleotides)

GGACACAACCT GAAGTGTGGA AGAAATGAAA GGGCGAAGGT GTGTTTGTAG AAGGCTCTGG AAGAAAAGCC CAACAACCCA
 GAATTCCTCT CTGGACTGGC AATTGCGATG TACCATCTGG ATAATCACCC AGAGAAACAG TTCTCTACTG ATGTTTTGAA
 GCAGGCCATT GAGCTGAGTC CTGATAACCA ATACGTCAAG GTTCTCTTGG GCCTGAAACT GCAGAAGATG AATAAAGAAG
 CTGAAGGAGA GCAGTTTGTG GAAGAAGCCT TGGAAAAGTC TCCTTGCCAA ACAGATGTCC TCCGAGTGC AGCCAAATTT
 TACAGAAGAA AAGGTGACCT AGACAAAGCT ATGGAAGTGT TTCAACGGGG TGTGGAAT CCACACAAA CCAATGGCTA
 CCTCTATCAC CAGATTGGGG TGCTGCTACA AGGCAAAAGT AAGGCCAAT GCAGANTACA GGGGGATCTG AAGCTAGT

SEQ ID NO:725: (Length of Sequence = 356 Nucleotides)

GACAGAGGAG AATAATGGA ATAACCTAGT TTTGTGAAAG ACTCACAGTA TCACCTGGTT TCTGGACAG GTTCGAGACC
 TGGCTGTGGC TTGCTGTGGC CTTGAGAGCC ATCCACAGC AGCAATGCTG TTGGACCTTT TGGCTGGGAC CTTCAGGACC
 CCCTGCAACA GCACTGTGTN CCTAACCTGC TGGCATGATG CCCCTTINIT GACAGGGCTG CATAAAGGC CAGCGACAAG
 TGGCAGGCAG TGACGCCAGC CTGGATTGTC TGAGGGCACA CGCCATGCTT CCTGCAGTGC CAGTGTCTTT CTNGGTCCAC
 TTTGCAGCAA GGATAGATGT GGTCTAGAT CCAAGA

SEQ ID NO:726: (Length of Sequence = 387 Nucleotides)

GTGGTAGAGT AAATCCTATT ATATCGAGAT ATTGGTCAGG CAAGAATTTT NCTTTTAAAA TAATTTATTG TAAATGAACC
 ATAAATTTT NACCTTTGTG CCATCTTCTA GGCTATAAAA TAGTCTTATA AAGAATCAGA TGTGTAAGAG TATATGAAT
 GTGGATATGG ATGTGGAAGA TCCATAACGA GGATGATGAA AGCACATTAA GAAGCTTTCT GATGGGTACA AAAATAGAA
 TGAAGAAGAT CTAGTATTTG AGAGCACAAC AGGGTGACTA TAGTCAACAA TAATTTATTG TGCATTTTCA CATAACTAAA
 AAGTATAATT GGGATTGTAA CAGAAAGGAT AACTGCTTTG AGGTGATGGG ATACCCCATTT TTACCCC

SEQ ID NO:727: (Length of Sequence = 348 Nucleotides)

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CCTTTAAGC AGCGGATCCC CTGGTCCCCA CCCCCAATT TATATTCATT AGGCCTGAGG TGGGSCCTGG GAATCTGGAT
 TTATAAATG CTCCTCTATG ATTCCAATGC CAGTGGGTTT TAGACCACAT TTTGAGAAAC AGTGCTGTAA ACTGTTTTCC
 ATTTGCAGTG AAGGAAAATG TAGGGTTTGT GTCGTGAAAC TATGCAGAGA AATTGAATAG TATTINAGTC TAATCTTGCT
 TTTAAATAAC ACGGAAATTT TGAAAGTCGG CTTTAGGGAG TTCCAGAACC TGTCCATGAA CAGCAACAAG AAAGATCCCN
 GTGTGAAAT GAACACTGGT TGGTAAAA

SEQ ID NO:728: (Length of Sequence = 305 Nucleotides)

TGTTTTATTA TAATCTTATA CAGTCTACAT AAATTGAACT TGTATTTAT TTGGGTTTCTG TTATAACATA GCATAATAAA
 AATCAAGCA CTGGTCTCT GAAATAAAGC AGGCAATCAC CATTCAATAA ACACACTTGA TTTATTTTGT ATAAAAGGGT
 TAAGTTTACA ACTAACTTT TATAAAANGT TTAGCATGAA TAAGTACATC ATTACACTTT TGAATGCAGA AATAGACATC
 TCTGCCACTA TACAAGAAAA CTCATAATTAA AGAGTTTACA AGGTTTCACT CAAATAGATA TATTT

SEQ ID NO:729: (Length of Sequence = 383 Nucleotides)

CAGACATTT ATTTTCTAT TTTCCATGAA GAAGGAGAGG GACAATTTTA GATTCACCAG TGTGCAGGAC AAATCTTAC
 TTAACCTATA GAGGAGCAAA CTTTCTTCAA ACACATTACC AATACAATTG TAATACTAAG AATCAATACC ATAGTTCTCG
 ATGTAGCATG ACTACAAATT GTCACAGTAG ATTTTGGATG ACTTTACCAT AGCCACACTT AATGAATTAT TATTNATATT
 NCTATTTGTA CTTTAATAAA ACTATATTTT AAACTTTAAA ATTGTCTATT AAATTACTAA AGAAAATGAG TAGTTCCCAT
 AATGAATCCA TAATGTTTANG AATTTGCTTT AGCAAATGAG GACTATATTC ACCTANGCTT TTG

SEQ ID NO:730: (Length of Sequence = 311 Nucleotides)

CTCTTTTATT CCTTTAACTG CTTAACAAAA GAAAGAGTCT CCAAAGTTTA AAAAACCTTT GAAAAATATA CAGCTTGATA
 TTATTTACAT AAAATATGAN TCCAGGTTCC AATATCAAAC AAACATTGCT ATGTCAGAAA CACAGTGGAA GGCAGGAACG
 TAATCTACTG CCTTTTAGAT GCAAAGACTA ATAGACACGT TCTCCNATCT CGACTATCTT NGTTACCTGT TATCCTCANA
 ACATAAATTA TTANGGCACC TNGAGGTTG GATGACTACC GAAATGGNC TTCATACCTT CTGTATGATT A

SEQ ID NO:731: (Length of Sequence = 349 Nucleotides)

AGGGAAATGC ACAGAATTCT ACTAAAATA CAGCAAATA AGAGAGCATG AATTACATAT CAAATTATTT AAAGCAAATA
 ATTTACAAA TTCTGGAAC AGACAGAAAG CAGATGAGTC TACCAAGAAG GATAATAAAC AATGACACCA GAGAAAAACC
 ACAACCTGAA AACTTAAGAA AACTGCCTAA GAGGTGTGAG CCAGAGCTCC CAGGAGCCCT ACAGTGCTCC AAGCTCAGAA
 CTGGCAGTA TCAAAGTCAA GAATGCTATG GGGTAGCTAG GCCTCTTGAC TTTCTCTTCT CTCTCCATTC ATAGACAAGA
 AAGCATATCT ACCTTTAGGT GGCTAGAA

SEQ ID NO:732: (Length of Sequence = 370 Nucleotides)

AAATTGTGTC CTCTAGCCTA GAAGCAATCA AACTCCAAT GGTGCTGCTG ACTGANCTAC GCATGGATAC GCCATTCTTC
 TGAGGACCT TAGACCAACC CCAGGAGGAG CCTGACTTC TGTTCCTCAT TTATGCCCC TTTTCAAGCA GGAAGTAGCC
 AGAAAGATG ATTGCCCAA ACCACCTAAC AGCAGTTGGG GTGACGTC CACAGGGGGG AAATGTTATA GGAGTTATTA
 AGAAATATC TTAGGCAGAT AGAGAGCAA AGGGGTCTT GGGAAATTTT TGTTCCTTTT AAAGTAGCTG CAGAAATGTT
 TCTTCTTAG CAGGAAAAGC CCCAGCTCTT TAAAGCTGGG GCCAGCAATC

SEQ ID NO:733: (Length of Sequence = 357 Nucleotides)

TTTTTGGTG TGTAGAGACA AGGTCTGCT ATGTACTAA GGCTAGAGAT CCTTTTAAAA TGTCTTCTG CTAGGTGTTT
 GGGCCATC CTCTCCTTG TTTCTCTC CTCTCCAGC TTCTCTGGAT TCCATCTGT TCTTACTG AGAAGTTTGC

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TACCTAGCTA GCCCTCAACC TCTTTGTTTT ATGAATGGAA AGGCTGGGAC CCAGACAGGG CAAGTGACTC ACCCAGTGTG
ACAGAGCTGT TAAATGGCAG AGCATGATTG AATCGGGCCA TGACTACTTT CCTACATGAC ATATTGAAAC CAGTTTGAGG
CCTCGGTTTC CTCTCTNGCA AAACAGAGAT ACTAATG

SEQ ID NO:734: (Length of Sequence = 374 Nucleotides)

TGGTGAAAGA AGAGAAGGAA ACCITGGTCT GCATGGCACT TGGTACTTTT GTATTGCCTC CATGCCCTCC ACTGCAGCTC
CTGCCCTGCT CTGTGTGCAT CCTCATGAG ACTCAAGACA GATAACCTCT CCTTGCCCTT TCATGTCCCA GCCCTGGNTC
TTGGACTCAA CCATCCATTG CATCCCCATG GAGGATTCTG CCAGTCTCA GGACTCAGGA GCAACCCAAG GATGTCCCAG
GGTCACAGGA AGACTTGTG AGGGGACCCA CAGGGGTGCC CACAAATTAT CAGTCCATGG AGAAAAGTAG AGAGGGAGGC
TCAAGGACCT CAGCACGTAA GGGACATTTT GAATTCTACA AGTCACGGTG GGAT

SEQ ID NO:735: (Length of Sequence = 348 Nucleotides)

CCCAGCGCTT GGAGAGCCAG CCTTCAGGG TGGGCTGGGC GAGCCAAACT GCGTTCCTGG TGCAGGGCTT CCGGTCTCCC
TAACAGACCT TATACGCTGA CCGGCGGCCG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGGGACGACC ACATTGCTCC
AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGCGAATCGT TTTCTCCGCG TGCCCTGTCA GCGCTCATG GTGCCAGAG
AGGAATTTTA GTGGCAGCAT TCGGCTGTG ACGCCACCGA AATTGCCAGG NCACTCCAAG TCAGAAGGAC CACCAGGAA
AGTCAGGAAG AGAACCACCC ATCAAGGT

SEQ ID NO:736: (Length of Sequence = Nucleotides)

ACACTCCTGA CCTCAGGCAA TCCTCCACC TCAGCCTCCC AAGTGCTGG GATTACAGGC ATGAGCCACT GCGCCAGCC
TACACACACT CTTAATAGAA GAAATGAATA ATCAAAAAAT ATTATTGTG GAAAAATGT TTGAATCTTA TTTAAAAAT
AATTAAAGNT TTCAATAGGC ATGTGAACC TTTTTCGCG TACTGTTC AGCAATTGCA GTTGAATGAG TACAAAATGC
ACCACAGAAT AGAGACTGCT ATCTACCCAA ATATTGCTGG TTGTGAATC CATGGTAGGG AATTTCATG TATTGTTACA
ACCNGCTATA AATACATCCC AAAATATGTG TAGAGCTAAA ATAGATG

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SEQ ID NO:737: (Length of Sequence = 243 Nucleotides)

TTAATCATTC AAACCTCATT TTATACAACG AGTGCAACA CCACCTGGGG AGINTCTGAC TGATGCGTGG GAGGGCGGGC
GGGGATGTCT NCAGCTATGA GTAGGGAGGA GGCGGGGAAG CCTTGGGTGC TTCTCTCCT CCACTGACCG CTGTGTGTTT
GTCCCAGAG GAAGAGCGGN NGGCAGTCAG CCCCAGGGG GATGGCAGAN TGGAGAGACG GACCTGCAGA AGTGGTGGCC
AAG

SEQ ID NO:738: (Length of Sequence = 358 Nucleotides)

CGAGTCAGAG CTGGACAGCG GCGATGCCAT CTTTACATGG CCAGACCGAG AGAAGGGCAA ACTCCTGCAT GGTGAGAATG
GCTCTGTACC CAACGGGCGAG ACCCTCTNA AGGCCAGGAG CCGCGGGGAG GAGATCCTGT AGCCACCTGG TCTGTCTCCT
CAGGGCAGGG CCCAGCACAC TNCCTCGCCA GTCTCTCTAC CTCCCGAGTN TGCGGGCAGC TNCCTGCCA GCATCTGCTG
GTCATTTGCG CCTGACAGTC CCAACCAGAA CCGCTNGGA CTTGAATCCA GAGANGTCT CCAGENAACC CCTCAACGAA
GCTGTGAAAT GAAGAGGTTT CCTCTTTAAA ACTGGTTT

SEQ ID NO:739: (Length of Sequence = 400 Nucleotides)

CATTTCTGGC CAGGCACGGT GGCTCATGCC TGTAATCCCA GCATTTGGG AGGCCGAGGC AGGCGGATCA CGAGGTCAGG
AGATGGTCTA GACCATCCTG GCTAACACAG TGAACCCCTG TCCTACTAA AAATACAAA AATTAGCTGG GCGTGGTGGC

GCGTTAGTAT TTCCTTAAAT AACAGGTTAC AATAGAAAGA TACTGCCTGG AAGTTATCCT TTTCATTTTG GTTCATTTTC
 AGTTTTTGTT TATGATTIAC ATAGCTGTTT AATTCAATTG CTTATAGTAC AATCCTGCCA TAAAGTATTA AAGCACAAGA
 TACCTGTTAT TCCCTTCAAC ATCTGCATTT TTTCAAGNTT TTATACTCTA TATCCACAGT ATGTCAGCAG TTCTTGACTG

SEQ ID NO:740: (Length of Sequence = 374 Nucleotides)

ATCGTCAGAT TCACCAAGGT TGAAATGAAA TAAAAAATGG TAAGGGCAGC CAGACAGAAA GGTCAGGTTA CCCACAAAGG
 GAAGCCCATC AGACTAACAG CAGCTCTCTC GGCAGAAACC CTACAAGCCA GAAGAGAGTG GGAGCCAATA TTCAACATTC
 TTAAAGAAAA GANTTTTCAA CCCAGANTTT CATATTCAGC CAACTAAGC TTCATAAGTG AAGGAGANAT AAAATCCTTT
 ACAGNCAAGC AAATGCTGAG GGATTCTGTC ACTNCCAGAC CTGCCTTACA AGAGGTCCTG AAAGGANGCA CTAAACATGG
 AAAGGGNATA ACTGGTACCA GNCCTGCAA AAACATACCA AAATTGTAAA GGGA

SEQ ID NO:741: (Length of Sequence = 290 Nucleotides)

AATTATTCA TAATAATGTA ATAAACATTC ATGAACATAC CCTATCAAGC AAGAGCTAGA ACCTTGGCAA TCATTTCTTT
 GACTCCTCCA GTTTTGGGCT ATCATGATAT TCAGCCCCAA GTTCATCATT TCTGTTTTIN CTTCTATACA GGTTCTTTAT
 ATGTATTTCT AAAAATCATT GGTTATTCA TCTTTGTAAA AAGTCATTGT NCTATTTTCC CCACTAGTTC TACATTGCAT
 TCATATTGTT GTGGGTTGIG GTAATTCATT NATTTTGACT GCTGTATAAT

SEQ ID NO:742: (Length of Sequence = 274 Nucleotides)

TTAAGAGGAA AAGTATCTTT AGGAATTINT TTCTATAGAG TTCTTCATTA ACATTTATAC GAGTTTTTTG CTGAGTCAGA
 TGGACAGTTG GGTCTGATG CTTTTCCTT CCGCCTGCC AGGCTGGCCC AGGCAGTGCT CCCACCANTC TATGAGCGTN
 TCCGGGGCCG NGGATCTGGG CAGCATCCAT GGTGCCGGGG CCATCCCCAG CGGNACCACA AGGTNGCAGC GTTGNTCCAC
 GAAANACCGN CTTTCCGCTC TGCTTCCCCA AAGG

SEQ ID NO:743: (Length of Sequence = 398 Nucleotides)

TGTCTTTGCA GTTATCTGGA ACTCTCGTG CTCTTTCAGG AGCTCTGGG TGTGCTGTAT ACTGGAGCCC GTGGAGGTGT
 GTGTGGAAAG GTAGAACTCG CCATTGTCTAT GGATCCATTC CAAAGCCTGC TTGGCCTCC TCTCAAAGAC CACGTACTGC
 TGACACTGGT CCAGCCGTCT CTTCCTCATG GTCCAGTAAT GCAATACCCT GTTCTCCCGT TGGAGAGATT CATTCAAGAT
 ATTTTCACT TGCTGTTGAG GAGCTTTGAT GTGCGTCACC ATTCTGGCA TGTTCACGCT TGTTCCTGTG CAGGTATTTT
 AGGAAGACGT CTGCATTNCT CCGAGCAAGN GGTGCAAGCC TTCAGGAATG CCTCCTTINC TNCAGGGTGC GGTTTTCA

SEQ ID NO:744: (Length of Sequence = 359 Nucleotides)

TGCGACAGAG TCTTGCACTG TCACCTGGGC TGGAGTGCAG TGGTGCAATC TCAGCTCACT GCAACCTCTG CCTTCCGGGT
 TCAAGCCATT CTCTGCCTC AGCCTCCCAG GTAGCTGGGA TTACAGGCAC CTGCCACCAT GCCCAGCTAA CTTTTTGTAT
 TGTMTTTTTT AGTAGAGATG GGGTTTCACT ATGTTGGCCA GGCTGGTCTC AAACCTCTGA CCTCGTGATC TGTGCGCCTN
 GGCCCCCAA AGTTCTGGGA GTACAGGCGT GAACCAACGN GNCCGGCTGG GGCTGCTTAT TTAAATCCCC TAGAAAGAGG
 GATTCTNCAG CTACACCACA CCTTAACCT NGAAGGACC

SEQ ID NO:745: (Length of Sequence = 361 Nucleotides)

CCCTTAATTA AAGTTTTTAT TTTTAAAAA CGTAACAGAC CACTCTAAGA AACTTTGGCA TTCAAAGCAG TAGTTACTGT
 TATTTGCTAA CTCIGAAAAA AAAATTTTNC CCTCACAAA CAACCGGCAA ACTCCTGCCA CTTCCTAGCT TGGTGGCTGC

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CAGCGTGAC TGCAGGGAAA CGGTGGGTGG AGGGATAGGA AGGCCCTCAC GCTCCCAACC CACGGAGAAA NTGCAGATGG
 TGACAAGCTG CATCTGGACT CCAGGNTGTA TCTGACAAAG AGGGAGATGG TNTCCTCCNT CCCCTNCACC AGCTCCACTT
 TINCTGCTGA AGAAACAGAG ATGTGGAGGC AGGCGTGACC T

SEQ ID NO:746: (Length of Sequence = 285 Nucleotides)

GTGTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAG GACAATTTAC AAACTAAGAA TAGTAACATA
 GCTTTCAGCA TCCTGTGCTT GAACATCACA CATCTACAAG TCTTTCAGN CTTAATGCAA CAGGAATNTG TCTGGAGACC
 AGCAAGANCA TCAATAGAGA GCACTGNTCC CAAGCAAAAG CCACTAACCT TTTAGATGAG AAGTCCACAC AACGGATTNT
 TAGGGGAGGA TTTGGGNGAA GCAGCCCAT TGTCTAATAC ATTGG

SEQ ID NO:747: (Length of Sequence = 302 Nucleotides)

CAATGCAGTT TTAGAGTGCT CATTCTTTCA ACTATTTTGA CAAATATTTA CTGAATGTCT GCCATAAGGC AGTAAAGGCA
 CAGAATGACT CAAAGCCTTT TTNCCCTTAT GGGGTGTAAT TNCTAGTGGT GGAGACAGAC AATGAGCAAG TAAACAATCA
 ATCGGCTAAT GATAACTACT GTGAAGAAAA TAAAGCAGGN CAAGGGAATA GAGTATGCCA TCATTAAGAC TGGTTAGGGA
 AAGCTTCTTT GAAGACATGG CAGCTATTGA AAACCTGACT GATACAAAGA AGCAAGTCAT GT

SEQ ID NO:748: (Length of Sequence = 346 Nucleotides)

GAGACCAGCC TGGGCAACAC AGTGAACCC TCCTCTCTAA AAAGAAGAAA AAAATAAGAG TTTTGAGTTT TTCCAAGAA
 GAATGCTCAG TACGTTTGTT ACTATCAGA AAGAAGAATC TGAGGTCCT GACGTGTAA CAGAGTTGTG GGTACCATCT
 CACCAGAATT GCTGCCCTGA AGCCAAAGGA CTGAGCTGCT CAGATCTGGA AGTAATCTGA GCCCCATTT CCAAGAAGAG
 AATTGCAGAA TTTTATAGGA AGAAGGGACC TGATCCCTGT CAATGGAAGC ATTTTAAAT TTTTAACTGA AGTTCAGGA
 GCATACAAA AGCCAGGNAA TTTACC

SEQ ID NO:749: (Length of Sequence = 325 Nucleotides)

CTAAACTTTA TTTTCAAAG CITAAGGCC AAATACAAAC TGAGGTCTTC CTTCCTAACA AATTAATACT AAAATGAAAC
 AGCTTTTNTT GTGTCTTAA GACAAAATAA GGAAGGAAA CGTAGCTGCA GTGTGCCAG ATGGATATG GTTCTTTAA
 ATATATCTGA AAGTAGTAGT CAGAATGANT TATGGTTGGA AAACAGAGN ATCTTCTGGT TGCAGGTGCA AAGTGACTTT
 NTTTATCTT GTCTCAGTCT CTTGATAGC CACTTCACTC TGCTACTACT CACTTTCTC CTAAAATAC TTCATCTATT
 TTCAG

SEQ ID NO:750: (Length of Sequence = 341 Nucleotides)

TGTATTTTNA GTAGAGAAGG GGTTCGCCA AGTTGGNCAG GCTGGTCTCG AACTCCTGAT CTCAGGAGAT CGGCTGCCT
 CGGCTCCCA AAATGCTGGG ATTATAGGCG TGACACTGTC TCTGGTTTAA GAGAACCATG GGCTGAGATA TINAGGAATT
 CTCCAGGCCA CGAATCTTGG GGCATGCAGC CTCTCCGTA CCCCACAGCA TCTNGGGGAG CTGGTGTGCT GATGGGGTCA
 GCTCTCCAG CTGCCTGGAA AATTCTCAGA CACTCCCTAA GAGGACATCT CCACCCCTNC CACTCTNACG TCACTGCTTT
 CTAACATGC TCATTGTTT G

SEQ ID NO:751: (Length of Sequence = 377 Nucleotides)

TTTTTTGAGA CGGAGCTTNG CTCTGTACAC CAGGCTGGAG TGCAGTAAGC CCATCTCTGC TCACTGCAAG CTTACACCAT
 TCTCCTGCCT CAGCTTCCCA AGTAGCTGGG ACCACAGATG CCGCCACCA TGCCCGGCTA ATTTTGTG TGTTGTTT
 TAGTAGAGAT GGGGTTTAC CATGTTAGCC AGGATGGTCT GGCCCTCCAG CTTCCTCTGA GTCCCTTCAT AACATTGTT

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TTATCTGTGA AAATAATTGG TTCCATTCTT AATTAGTACA TAATGAGAGA GGCAGTGTGA TGGTTTGTGC CTAAGNCCTT
TCTTGCCAAG ACTTTCAAAG CCAAAAACCT CANCAGTTTT CCTAGATGAC TAGACAG

SEQ ID NO:752: (Length of Sequence = 359 Nucleotides)

AAGTCAGGCG TTCTTGGGGC AGCTGTCTTG TGAAGTTGGT GGGACGTGCT ACCCTGGGCC AGCTCCAGGT GAGCNTGGCT
TCGGTGGTCC CCGTGGGCTC CINAGTGGCG AGGGTGAGGC CTGGCACTGG GCCTCTAACT GGCCCCGTGG CCCTGCAGTC
TTTNGTGTCT GTGTCCCGCT TGCCCTTTNT CCGGCTGTTC CAAGCGCTGC TAAGCCTCAT CGNCCCNAG TACTTTNACA
ANCTGGCGCC CTGNTTGGAA GCAGGTGAGT GGCCATCANT CGTGGTCATC TTGENTCAT NATCCAGCT TTGGCCCCGT
GTTGGGCTCG GCAAGCAGCT TCTCCTTGGG GAGGGTCT

SEQ ID NO:753: (Length of Sequence = Nucleotides)

AGCTTCAACT TGGAAAGAAG GATGATGCAG TTTTGGGCC TCCGGCCATC AATNACCGAC AGCNCTTTGA CCTTGGCGGA
AGCCAGGTAT ATGINTTCAG TGGAGCCCAG CTCTTTCTGG TGCCCTCTGT AGGCTGAAAA CATCTTTTCA AAATCCTCTA
GGTCCAGGNT CCGAAATACC TGCAATGCAT CAATCTCATT CCATACGGTG CCAGGGACAC GCTCCTCAT CAGCTTCACC
CAGTGAAGG ACTTCAGTGG GTGAGAAGGC TGGGGGACAC GCTTTTCTCT GAGTGGGACG

SEQ ID NO:754: (Length of Sequence = 342 Nucleotides)

CTGTGAAGT GCAGGTTTGA TCCAGCCAGT ATAGAACTAG CTCTGTAGGG GTGAGGAGGA CTGINTGTG TATCATCCTT
GATTGINTTC CTTCAAGGAG CATTGCACTG TAAGTACATC AGAATGACAA ATTGATGAAC TGCAACAGTA TCTTTTTGTG
AATGTTCCAC ATAATGCAAA TGCCATACGT TGTGTGAATA TTATGTTGGA ATACAGTGCT GATATCTTGG AAAACCATAA
CTGCCTCTTA ATTTAACATA GNGTAATACA TAGTNTGTGA TTTTTTTTAA AGTGAGCTNT AATGGGNAAG TATTTTTNAT
ATGCTTTAGC TATAGCTAAA GG

SEQ ID NO:755: (Length of Sequence = 321 Nucleotides)

CATTGCCATC TTCTCAGTCC TTCTCCCTTT CTTTCCAAGT AGTTTACGGC CCTAGGGCGA AGGTGGCTTT TATTTCTCT
CTTGGGGAAG GAGGGGGAGG GAGCTTTCCC AAGCACATCA ACCTAAGGAA GGGGTGGTTG CNCCCCAGC AGCGAGGGGC
TGGAATGCT GATCATTCGG AAGGAAGGGT TCGTCTTGT CCACCTCCTG GCCCTTGGCT GCAAGGGTGT GCTTNGCAGG
GGTCACTCCC CTTGGGGGTG GCAGCTCCTG CATCAGTNGA GGGCACAAGG AGGTATCTGC TGGTGTTCAC GAAGAGGAGG
G

SEQ ID NO:756: (Length of Sequence = 368 Nucleotides)

TGGCATGGTT GCATGTNCCT GTAATCTCAG CTAATTGGAG GCTGAGGCAG GAGAATTGCT TGAACCTGGG AGGTGGAGTT
TGCACTGAGC CAAGATCGCA CCACTGCACT CTAGCCTGGG TGACCGAGCA AGATTCAATT TCAAAATAAA TAAATAAATA
AATGAGAAAA AAATATAGAT ATAGTAAAGG GAACAATTAC ATTCTACAA ATTTTAGCAG AAGTAAATAT GGTTTAATT
AATGGAACA GCTCTGCTCT ATNGAAAATT CACAAATATT AAAAATAAAC ACACCTCTACA TTAAACCTCT GAGCACTAGA
NGCTTACCTA CTTATTCATA GGGCTCACAT ACTGTAAGGG GGGTAAAT

SEQ ID NO:757: (Length of Sequence = 339 Nucleotides)

CTTCCACTGC CAGGTATATG TCCCGGGAAG CCCCCACCC CCTCGNTTTC CTCTCCGCT TTCCCTAACC CGTCTCGCGG
GGGCATCTAC GNTCTGTCCT CENCCTCTC CTNCTCGAAC TCCCTTGTG CTGCGGCGT GGCGTCTGG TACTGCTGGT
ACTCGGACAC CAGGTGCTTC ATGTGTCTCT CGGCCTGGT GAACCTCATC TCGTCCATGC CCTCNCCGT NTACCAGTGC
AGGAAGGCCT TCGNCGGA CATGGCGTG AACTGCTCGG AGATGCGCTT NAACAGTCC TGGGATGGCC GTGCTGTTTC
CGATGAAGGT GGCCGACAT

232

SEQ ID NO:758: (Length of Sequence = 356 Nucleotides)

TTTTTTTGTA TTTCTTTTGT ATATGGGTTA AATGTTTCCG TTATATTTCC TAATTGGCTA TTGCTCGTAT AAATAGATGT
GGTTTTAGGC ACATATTTTA TATCTGGCTC CTATACTAAA AATCTTTTAT CATTTCCAAC AGTTTTCAGT TATGCTCTTG
GGTTTGAAGG TAGACAATAA TGTCATCTAC ACATAATGAT ACINCTGTTT TCNCTTTTAA AATGCTTATA GCTCTTTNAT
TTTTATTGCT TTGCTTGTGC TATAAATNCT AGAATGAAGT TAAATAATCA TAGCAGATAT CCTTTTCTCT GATTTAATTA
TAATGCTCCT GAAATTTTAT TAAGTATGAT GACTGT

SEQ ID NO:759: (Length of Sequence = 333 Nucleotides)

GCCATGTGGG GCGGGGAGGG CCGTGGGGTC GGGCGGGGGG GACGGTCAAA GACTTCATAA ATAAGAGGCG GGTCCCAGAC
CCNCAATTT GTCAACATGT CTTAAATAGG TGCATTATTT AAATCTTATG TACAACAAGA ATCATTGTGC ATAGCAATGG
TGAGGACACA GGACGGGTGC AGTGATGTGA CTGGGTCTTC TTGTCCAAG GCGGGGGGGC GAGTTGCGAG CTCAGCTCGG
AGCCTCTAGG AAGAAAGCAT CCTTGTCTCG GCGGCAATN GTGGCATCGG AGTTGACTTT TCCCACACGA CGGCATCAAN
CACAAAGGCA AAG

SEQ ID NO:760: (Length of Sequence = 311 Nucleotides)

CGTCTCTCT GCCCAACCCG CCCCCACCA TTGCCGAGGA GGCTGAAGAT GGAGATGGGT CCGGCAGCAT CTNCGGTTCC
ACCGGAGACC GCTTGGTGGC ATCAGCTTGC CCGGCCCGGC CGCAGATATT CCGGCCTCGA GAACAGCTCA TGCTGAGAGC
CAACAGCCTG AAGAAAGCAA TTCGTCAGAT CATAGAACAC ACAGAAAAAG CTGTGATGA GCAGAATGCC CAGACCCAGG
AGCAGGAGGG CTTCGTCTG GGGCTCTNIN AGTCAGAGGN GAAGATNGAC CACAGAGTTT GNCCACCACT T

SEQ ID NO:761: (Length of Sequence = 314 Nucleotides)

TTTTTTTCT TTTTTTAAG AGACAGGGTC TCACTCTCTT TCCCAGGCTG GAGTGCAGTG GCAACGATCA TAGCTCACTG
CATCTCGAA CTCTGGCCC CAAGGGATCC TCCACTTTG GCCTCCCAA GCACTGAGAT TGCAGGCGTG AGACACCTCA
CCTGGCTTGT CTGAGAACAT CTTTTAAAA AAATCCCTTC TCTTGGGTTT TCTGTACCC ATATGCTAC TCAATTTGGT
TGTCTCAGCT TTGTTGTTGT AATGCAAAAG CAGCCATAGA CANTACATGC ATTGAATGAG TGTAGTGCAT TCCA

SEQ ID NO:762: (Length of Sequence = 319 Nucleotides)

ATAAAGGTAT ATAAAGTTG AAATTAAAAG ACACATATCA TGAAAATACT AACAAAAAGC TATAATAGCT ATATTAATAT
CAGGTAAAAT AGACTTTAGG ACAAAGCAT TATTAAGGAA GGGAAAGTTG CTATAATAAT AAAAGGTTGA GTTAATCAAA
AAGATATAAT AGTTTTAAAC ATTATGCATA TAATTAAAT CCTCAAAAAT AGACAAAGCA CATATTGATA CTTAAGGNAG
AAATTGATAA ATCCATCACC ACAGTGGGAA ATTAGGAAGT TTCTGTACAC CTCTTTCCT TGTGATAGG TCAAATGGA

SEQ ID NO:763: (Length of Sequence = 369 Nucleotides)

TCCAACTCC TGCCAGATAT AATTCTAAAA ATCTGTTTGT TAATTTTATT ATTTTATTTT TGGATTTTAA AATGCTTGGG
AATTTGGGAGA TATGCACAAT TGTCTTTGCT TTGTTCAAA AATTAAATGC GTATTTGGGT ACTTATAGGA CACTATTTGT
AAAAACATTT ATTTCTTCAG ACATTGATGG TCTTGTCCCA GTTATTACA ACATCTACAT GTTTAAGAAT AAATTTCTTA
TCTACTTCTT ATCCATTGA AAATTACCTT TCTATCTCC TACTCTGGAA GTCTTTATGN ATTCTGTCTT AATCATTAGT
ATCCCATGTC TTCTTCAAGA GGATGTCTGT CCAGTAGGAA TTCTCCCA

SEQ ID NO:764: (Length of Sequence = 381 Nucleotides)

CGGGTAGCAG TTGCTGAGTG TCAGCTAGAC AGCAGCGACT AGGGCTGGG GCGCGGCGAG ATGCCTTTNT TCACCGCCAA
CCCCCTCGAG CAAGACGTGG AAAAAGCCAC GAATGAGTAC AACACTACAG AAGATTGGAG TCTTATTATG GACATATGTG

ACAAAGTTGG AAGTACTCCT AATGGAGCGA AAGATTGCCT AAAAGCCATA ATGAAAAGGG TAAATCATAA GGTTCACAT
 GTTGCTCTGC AAGCACTAAC TCTTCTGGG GCTTGTGTGG CAAACINTGG AAAGATATTT CATTTAGAAG TATGTTCCCG
 TGGATTTTNC AACAGAAGTA CGTGCTGTGA TTAATAATAA GGGCACATCC TAAAGTATGT G

SEQ ID NO:765: (Length of Sequence = 329 Nucleotides)

TTGTCGTCTT GATGCAGGAG CTGAGGAGCT GCACAGAAGG TTAAAGAGC TGTAACACAA ACAGGGCTGC AACATGCCCC
 TTGTCCTCCA CAGGGAGAGA AGAGCTCTGG CCTCGGAGA AGCCAGACC TGGGAGCTCC TTGAGCCCGG GCTGTGACTC
 CCTCTTTGGG GCCCCTGGTG GCGTACTGC ATTGCCAGT GCCACTGTTG GAAGCTGCTT GTNATGCGCC TGGTCCAGGG
 GGAAGCTGTT TGTGTGTGC CTGGTCCAGC CACCTCATGG AGAGCCTGTG CTGGCACCTG GGAGCTGCCC AACCTGGGCA
 GCAAGCTTT

SEQ ID NO:766: (Length of Sequence = 321 Nucleotides)

GCACTGGCAG GTAGATTTTA TTGGCCTGGG ACACACAGGG GATACCTCA CCCAOGATGG GGTGGGGGGT GTGGTGTGA
 AGATATAATC TNATGGTCAC TTGTGGTAGA ATCGGGGTT CTGGCTGINT TGGATGAAGG GGAGCCGAGG GCCAGGTGG
 CTGGTAGCTG CAAACCCGAC TTCTCTGCTG GCTGCATCTG CACAGGGAGC TGGGGGAAG CAAGGAGTCC AGGGGCTGGA
 TGCAGAGCTT GAGTCGGAGA AGCCAGTCTG CTGGTTAGCA TGINCCATCT GCTTTINCAA GGNACAGGCA CCACCAGCT
 T

SEQ ID NO:767: (Length of Sequence = 313 Nucleotides)

ACCGCCCCCTC TAGTTCATA TTCTGTCCCC GTACCCAGG GCATCATAGA CACTCAACAA CCATTGCTTG AATATGCAAT
 TGGATGAAAT GAATAACGA CCAGAGGAAT AATCCAGACA GAGCAGCAGT GGCCAAGGGA AGGGAGGATT GATTATGGG
 AGAAAATTAG GGAATGAAA TCCATAGAAA GGGTTTGCTT AAGTINAGAGT GATGACTINGA GCCAGAAGAC ACCCGGGGA
 GAGGAATINT TTCACATGGT AGGAAAAGGG GAGGAGGGAG AGAGGTGGGG TGGTGGAGTN CAGCCTCGAG GCT

SEQ ID NO:768: (Length of Sequence = 372 Nucleotides)

TCTCTCTCT GCTGTCTTAT ATTCTGCAGC TCCTTAGTAA CCCCTGTGGC CCACTTCTTA CTTAGGTCTC TCCTAACATG
 TATCTATGAC ACATTGATCC CTAACAGCTA TGATTCTNCT TATACTTTIN CAGTAATTIA AATTPTATCA TTCTACTGCT
 TGTCAATAC ATCTCTCTAT GTAAATCTTG ACTCCATAAT GAGGTTTTTA ACTTCGAAGG GGTGGAAGT TATCTGCTGC
 CTGGGTACCC CCCCGCCATT ACACAAGAGT ACATTTTAAG CACATTACAC CTGAGTGATT GINGTAAAAC ACAGATGCAA
 TCTTTCACC ATCCTCTAGG AATTCTTCTG TGGGCTTCC ATTGGGTAC CC

SEQ ID NO:769: (Length of Sequence = 321 Nucleotides)

GCAGCCAGAG CTCCAAGGCT CCCCGGGCG ACGTGACCGC CGAGGAGGCA GCAGGCGCTT CCCCGCGAA GGCCAACGGC
 ATGGAGAATG GCCACGTGAA AAGCAATGGA GACTTATCCC CCAAGGGTGA AGGGGAGTGC CCCCTGTGA ACGGAACAGA
 TGAGGCAGCC GGGGCCACTN GCGATGCCAT CGAGCCAGCA CCCCTAGCC AGGGTGCTGA GGCCAAGGGG GAGGTCCCC
 CCAAGGAGAC CCCCAAGAAG AAGAAGAAAT TNNTTTTCAA GAAGCCTTTC AAATTGAGCG GCCTGTCTT CAAGAGAAAT
 C

SEQ ID NO:770: (Length of Sequence = 364 Nucleotides)

TTAAATCAGG AAATGTGATG CCTCCATCTA TGGTTTTTGA AAGTCATCAG CCAGAGCTAA GGTAAATGAGG ATTCCCTCCT
 TCATGTTTAT ATGCTTTTAC ACTGTGCACA ACTGTCCCTA AAAAAACAAA CCCCTGGCCA ATTTCTCCAG GCTTATGTC
 TCCCGGTTT CAGTACATT TCAGCTTAGC ATTTTCAAAA TAACAATTG TTCTTGGCAG CCTGTCTATA TATTNNATT

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ACCTCTCTTG TTATCCCCAC TTTTCATGCT CTATGTCCCA TAGGCAATTT GACAAAGACT GCTTTGACAA AGGATTCCCTA
GACTTCTATC TCTACCTCTC ATCTGACTTG GGCGGAGGAT TAGG

SEQ ID NO:771: (Length of Sequence = 357 Nucleotides)

CAGCTCACTG CAACCTCCAC CTCACAGGTT CAAGTGATTG CTGCGCTCAN CTTCCCAAGT AGCTGGGACT ACCGGTGAC
ACCACCATGT CCAGCTAATT TTTGTATTTT TNATTAGAGA CAGGGTTTCA CTATATGTTG GCCAGGCTGG TCTCAAACCTC
CTGACCTCAA GTGATCCGCC CACCTCGGCG TCCCAAAATG CTGGGATTAC AGGTGTGAGC CACCATGCC GGCCTAAATT
ATAGCTATTT TAGAATGTTG AAAGTAGTAT TATGTGATTT CAGTTTGCCA TAAATTTTTC ATATGGTTAC TAATTATTTT
TNTTTTGTG GATATATCTT CTGGAAATCT ATTGAGG

SEQ ID NO:772: (Length of Sequence = 359 Nucleotides)

CCTCTCAGGA AAACACCIAG ACATTATGTA ATGTATTTGA AGATTAATGT ACCCTTTAAC CAGCAGTTGT GTACCTAGGT
ACAACTTTG CAAGCACACA CGCATGINTG TNCCAAAAG CACATACAAA AACACTCCTA ACAGCATTAT TTGTAATAAT
AAAATATAAG AAATTACCTA AATATCCATC GACTGCCATT GGTAGTATGG TTATACAATG GAATCTACA CAGCAATGAA
AAGGAGCTAG AGCTACATGC AACAACATGG ATACAACCTA CAAACGTAAG ACTTAGTGGG AAAANGCTAG ACACAAAGTT
AACACCTTCT ATATGTGGGT TCCAGTTATA TAAAACCCA

SEQ ID NO:773: (Length of Sequence = 361 Nucleotides)

GAGCCTACGG CAGAAAAAGA AACATCTTCC TATAAAAACT AGACAGAATA ATTCTCAGAA TCTGCTTTGC GATGTGTGCG
TTCAACCCAC AGAGTAAAC TTTNCTTTTG ATAGAGCAGT TTTGAAACAC TCTTTTGTGTA GTATTINCAT GTGTATATTT
AGAGCGCCTT GAAGCCTACG CTAGAAATGG AAATATCTCC CCATAAAACC AAGACAGAAG CAATCTCAGA AACTAATGTG
TGATGCTGC ATTCCACACA CACGGTGGAC CATTTCTCTT GATAGAGCAG TTTTGAAACA CTCTTCTGT AGAATCTGCA
AGTGGGATAA TTGGGACCTC CTAGAGGGCC TTCGTGGAA C

SEQ ID NO:774: (Length of Sequence = 387 Nucleotides)

GTTTCGCTCT TGTTGCCAG GCTGGAGTGC AATGGCGCAA TCTCGACTCA CCACAACCTC CGCCTCCAG GTTCAAGCAA
TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC ATGCGCCACT ACCCCAGCTA ATTTTGTATT TTNAGTAGAG
ATGGGGTTTC TCCATGTTGG TCAGGCTGGT CTGAACTCC TGACCTCAGG TGATCCGCTT GCCTCGGCCT CCCAAAGTGC
TGGGATTACA GGCATAAGCC ACTGCGCCCA GCCAGAAGAT GCATGATTTT TTAGGATCAT ATGCTGTTTG TAGCCATAAG
GTAAATCATG TCTCTTCCAA TCATGACTTT TGGGAACCTC CTGAATAATA AAAATGAGAG TTGAGAT

SEQ ID NO:775: (Length of Sequence = 401 Nucleotides)

GAATTINICT TTCTGCATCG TTCTGTCATA AAAAGGGGTA CTAATATAGA ATAGAATGCA GGCTTAGGAC CCCCCTAAGC
TCACTGTTCA ACCCAGCCCA GCAAACCTGT CAGTTATAAA TTTTNCCTGCA GGTCCCTGAA ACAACAACAA AAAACTGGAT
GAGGTTTCCC TCCCATCTTG TTTTATGTCC TTGGGAGCTT GACCTTATAA CCATACGGCG GTACTTTTNC TTGGTCTCTG
CCATCCAGGG AACCAGAATT TGGGGGGTTA TGTCATAGTT AGCTCTAAAA ATTATCTTGA GCAGTTAAAA GCCTTTGCAA
GCTTAAATTT GACTGCTGTA GGTTCCTTCT GGGGAAGGAG CAATGGGAAA CCTTNCCTAA GCTTATAGCT CANCCAGCTG

A

SEQ ID NO:776: (Length of Sequence = 345 Nucleotides)

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AACACTGGGT AAGCACTTTG TATGINCTGG GCACTCTGCT AGAGATAATG TGTCTGGAAT TGGTGGGTTT TTGGTCTCAC
 TGACTTCAAG AATGAAGCCG TGGACCCCTG CAGTGAGTGT NACAGCTCTT AAGGTGGGCG GTCTGGAGTC TGTCCCTTCT
 NATGTTTCTA TGTGTTTANA GTTTCINCTT TCTGGTGGGT TCGTGGGTCT CGCTGGCTCA GNGTGAAGC TGCAGACCTT
 TNOGGTGAAG GTNACAGCTC TTAAGGCNGC GGTCTGGAG TTGTTCTGNC CTCCCGGTGG GCTCGTGGTC TCGTGGGCT
 CAGGAGTGAA GCTGCAGATC TTGCG

SEQ ID NO:777: (Length of Sequence = 229 Nucleotides)

ATTGGGGGAA CCAAGCCCA NTAATGCTAT GGCTGTGCA GACTGTGAGA GGTACTGCCT TCATGGTCTT NGGTAAGATC
 TGGGAGAATT CCTGGATTA CCAGGCAGAA ACTCTNATTC TCTGCTTCA CTCCCCCA AACAAATNAG TCTCTCTCTC
 TCTCTGCTCT GAGCTGCCTA GAGCTGAGGG AGGGGGTGAC ACAAGCACAG CTATGTCACC AGGAAGCCA

SEQ ID NO:778: (Length of Sequence = 361 Nucleotides)

CAGAACTCA GGAATAAAGC CATTAACCTT CAAAGAATAT GTGTGTGTGT TCGATATTTT CCATTCCTAA TCCACATCCA
 CGTTGGTCAA GTAGAGCTTC CTACTCAGAA GCACAGCAGT TGCCATGGTG TTCTCTTCCA TCTGAAAGCA GCAATTTTCC
 GCAGCGTCCA TTTACAGAAT GTGCCATATT TACTCAGATT CTAATGTATA TTAAATATGC TTGGGAAACT TAACAAGAAA
 CGTGCAAGCN CTCAGTAAAG AAAAGTTGTA GAAACAAAA ACTGAACAGC AGGCTTCTAG TTTCTCTCTT CCAAAATGG
 CCTTAGTGGG ATTCAAAAAT GGAAGTGTG AATAAACTG C

SEQ ID NO:779: (Length of Sequence = 392 Nucleotides)

CCTAAGATGC CTGGCACAAT CAAAGACCTT TGGTGGCTTC CAGCATTAT AAGGCAGAGT CCAAACACAC ACTTAAGAAT
 GACTTACTCC TCTGGCGGAC CCCACCATTC CCTCACCOCG CTTTGGCTCT GTCTCTCTGT GGAGCTGCCC CTGCCCCATA
 AACTGCTTC CTCTCTACCA ACCCGGACCA TATTTCCCTT CCTCCCCCA CCAGGTCCAG CAGTACCCAC CACGTTTGTG
 GACATCTCCC CAAGGAGCTC TCACGTATCA GAAGCAAGGA GTTAGCTTTC AGCCCCACCT CTTGTGCTTA GGTCTACAGT
 GAGTTCACAG TGATGCTTCC TACCGACTGC TTGGGGGTGC ACAAGAGTNA GGCCAGCAAG ATNCCAGCGG AA

SEQ ID NO:780: (Length of Sequence = 453 Nucleotides)

CTCTCTATTT TCTCTTTTCC TTTTGACCTA CCATAGGAGA CAGATTGCTC ATCTCCAAAT TTCTCTGCTG TCTGGGANT
 GCTGGTTTTT CAACCTTGGT TAGGGTTTGG CTTAGGAATA GCATAATATC CCTTTGTGAG AGGTTAAACA CTTGAGTTAA
 ATTTTGGAGG CCAGGTGTGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GGGGCCAAGG TGGGCAGATC ACGAGGTACG
 GAGATCAAGA CCATCCCTGC CAATATGGTG AAAACCCGTC TTTACTAAGA ATACAATAAT TAGCTGGATG TGGTGGCACA
 CGCTGTGGG TCCAGCTAC TTGGGAGGCT GAGGCGGGAG AATCGCTTGA GNTGCGGAA GTGGAGGTTG CAGTNAGGGT
 GAGATGCGC CACTGCACIN CAGCCTGGGN TGAGAGAGCA AGACTTCCGT TTC

SEQ ID NO:781: (Length of Sequence = 306 Nucleotides)

AAGCTACTCG GGAGGCTGAG GTGGGAGAAT CGCTTGAACC TGGGAGACGG AGGTTGCAGA GAGCCGAGAT TCGCCATCA
 CACTCCAGCC TGGGCGACAG AGTGAACTC CATCTCAAAA AAAAAAAAAA AGAACCACCA CTNTAACTGA GAAATAGATG
 NCCCCATTAA CAGTTTAGAA AATGTATATA ACTCTAATCC ACAGAGGTTT ATACTTACAA GCAACTCATG GTTTCCTTTT
 TAAGGGCCAC ATGTGGAAAA TTAATCTGAA CAGTTAGTGC AAGGAGGAGT CATACTCAG TGGAAA

SEQ ID NO:782: (Length of Sequence = 443 Nucleotides)

GTCTCGGGCT CCTGACCTCA GTGATCTGC CTGCTCGGC CTCCCAAAGT GCTGGGACTA CAGGCATGAG CCACTGCACC
 TGGCCTAATT CTACATTTIN ATCTACAGCA GACCTTTTAT CATAAAGAG TTTCTATAAA ACATTTCTCA AAAGAAAATA

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TGTATTGACA TTCTATTTTC TTTCTCTCC AGATACTATT TTTNGGATTT NAAACATACA CAATACTTAG GAGACTTGTT
 TTAAGTGCAG CTGGTGAGT CCCGGCAGTT CCTTCCCGGC ACTGGCTCGT CCCTGGGGTT CTCAAGGTTT CATGCGGCCA
 CAGCGTCCGT CCACCTGTTC CACGNGAGCC ACATGCTGGA ATT

SEQ ID NO:783: (Length of Sequence = 350 Nucleotides)

CATTCAGGCC GGGCACAGTG ACTCATGCTT GTAATCCCAG CATGNTTENA GACATAGCAG TAGGGACTAT CGACAAAGAA
 ACACACAGAG GGAAAAAGAA TTCCACATTT GGGAGGCTGA CGCATGAGGT TCACCTGAGG TCAGAAGTTC AAGACAAGCC
 TGGGTAAACAT GGTAAAACCC CGTCTCCACT AAAAATACAA AANITAGCTG GGCATGGTGG CCTGGGGCTG CAGTCTCGAC
 TACTTGGGAG GCTGAGGCAT GAGAACCTCT TGAACCCGGG AGGTGGAGGT TGCAGTGAGC AGAGGTCATG CTACTCTCAA
 GCCTGGGGCA ACAGAGCGAG ACCCTGTCTC

SEQ ID NO:784: (Length of Sequence = 265 Nucleotides)

ATAACTGAAA AATGGAAGAA AATATTTGCA AATTACACAT GTGAAAAGCA GITAATATCA AAAATATATA AGANACTCAA
 AGGACTATAC AACAAAAAC AAATAACCAT GAAAAATAAG CAAAAGATAT ATATAANTNA TTINCAAAGA AAGACATACA
 TATAGCTTGG CAGATAGATG AATATGGCTC AAAGTCAATT ATCATCANGG AAAGGCAAAC CAAAACAACT CTAAGATATA
 AACTCACTCC TGTAAANTG TTAA

SEQ ID NO:785: (Length of Sequence = 363 Nucleotides)

GTAAAGNTTG AGAAATCGGA TGGTGTCTGT GTCTGTGTAG AAAGAAGTAG ACATGGGAGA CTTTTCATTT TGTCGTGAC
 TAAGAAAAAT TCTTCTGCTT TGGGATCCTG TTGATCTATG ACCTTACCCC CAATCCTGTG CTCTCTGAAA CATGTGCTGT
 GTCCACTCAG GGTAAATGG AAAAAAATA AGAAAAATGA AACCAGGAGT TGGCAATTAC TTTTTTTTTT TTAAAGACA
 GAGTCTTGCT CTGTACCCA GGCTGAAGTG CAGTGGTGAG ATCTTGGCTC ACTGCAACCT CCACCTCCA AGCTCAAGTG
 AATCTCCAT GCCTCAGCTT TCCAGAGTNA CTGGGGATTAA NAA

SEQ ID NO:786: (Length of Sequence = 291 Nucleotides)

AACAACAATC AGCCACAATG TGCTTTTAAG GATTTAACTG ATAGTAAAGA TAAATGTGAG TMTAAGAAT GGGATTTTTA
 GACTAGGCTG ACACAAGGGA TCTTCTTNA ATAAGGNTCT TGAGCAITTG TMTTTTTGGA GCTCATCCTT AAGGGCTGGA
 CAGGAAGAAT CCTGTGTTAT GTGTGCATGT TGAGCAATGC AAAAAACACT CTGCCAAATC CTNGATACCA CATGGTCTNG
 AGAAATGCAT GAGTGATTAA ACGCAGGNT GGGTGTAGTC ATTATGTTCC T

SEQ ID NO:787: (Length of Sequence = 256 Nucleotides)

TATTTCTGTA TAATTTINAT TATGACCATA AAAATAACAA TGTAGTCAAT AACAAITTA TGTACATTT TAAATAAAT
 AAAGTATATA ATTACACTGN TTGTAATAAA AAGTATAAAT GTTAGAGGTG ATGGATACCT TATTTACCCT AATGTAATTA
 CTACACATTG TAGGCTGAA TGAAATATG CCATATAAGG CATAAATATA TACACATACT ATATACCCAC AAATACCAAT
 AATAAATTC AATAAG

SEQ ID NO:788: (Length of Sequence = 322 Nucleotides)

GGTCCAATGA AGCTTCAACT CGTTTTCAGC TCAAAGCAGA CGGCAATCA GCAAAAAGCA AAAATAATGT ATCTTACTGC
 ATTACAGACA AAAAAAACA AAAAAACAGA GTGAACTAG ANCIATTTTC AATAGTAGTT TTCTGACAGC TATATAANCA
 AATATAGANG ACATTATGGA ATTAGTATG TGAACGAGAA CTGTCCATG TATCTGCTT GCCAGCAAAG GTAGAGATGG

CTGINATATT TGTAATGGTT TACTATGAAG GCTGTTCCAT AACCTNCAAT ATCCACTGNT CTGGGGTGGT ATACCAAGGA
TA

SEQ ID NO:789: (Length of Sequence = 357 Nucleotides)

TCAATGTGGC ATTTGTTTTT NTTAGAAAAC CCTTAGTAA GCACCTCTCT AACCCAGAAT AGACACTGGG TATCCTCCAA
GAGTCCATA GCTTTCATTT CATCTCCAC CCTCTCTGA GAGGGGGAGG CAGGGGATAG GGGTGGTGT AGGCAGTCTC
CAAAATGCCC CTCCTAGACC CTTGAGAGAA TTCATGTTGC CAGCAATAAA CCAACAGCAC CTCAGTGGG CATCANAGGG
CCTCTAGGC TCAAGGCTAT TGCCAAAGGG CATTCCTGTT TTATGAGCTT CACGATGGGA ACCAAGGNAG GCTCTCGCAA
GACTTCCTAG GGGCTGGT CTTCAACTTA TGGGCCT

SEQ ID NO:790: (Length of Sequence = 366 Nucleotides)

TGGCCAGGCT GGTCTGAAC TCCTGACCTC ATGATACACC CGCCTTGGCC TOCCAAAGTG CTGGGAATAC AGGCGTGAGC
ACTGCACCCA GCCTGTGTG ATCTTTTAA GTACAGTCC CATAGATTTA CATTAGAAT AAAAAAGTCA TGACATCTTG
CTTTTATATG GCAGTTTACT CAAGCTTTT AAAGAAAGAG CATTCATCTT GCTTTTACGT GGTTTTAGAA TGTTGAAAAC
CTTTTENTAA ATCTGAGTAA TTTACTGCAT TTNCCATTAA TTCAGCTTAG TTAGACTGCT GGTCCAGTG CTTGTGTTTG
CTGTACATA TACCCTAATA TGCTTTTAA CATATGNCCA AATTCC

SEQ ID NO:791: (Length of Sequence = 317 Nucleotides)

AACAACTCCA ACCATAATGG AGAAGGAAAT GGCCAGAGTG GCCACTCTGC AGCGGGCCCT GGTTTTACGA GCAGAACTGA
GCCTAGCAA TCTCTGGAA GTCTGGCTA TAGTTACAA GATAGTTTG GGTGAGCGT GCCACGAAAT GTCAGTGGCT
TTCTCAGTA TCTACAGG CAAGAAAAGG GAGATTTAC TGGCCATGG GAACGAAAG GTAGAAATGT AAAATTCCCA
AGCCTCTGC AGGAAGTGCT TCAGGENTAC CACCACCACC CTNACAAGN GATATCTAG GGGTACTCA AGAGCAT

SEQ ID NO:792: (Length of Sequence = 258 Nucleotides)

GATCAATATA TCCAGGAATT TGTAAGAAAGA TCCTAAACTT TTCAAACATG TCACAGGTAG TACTTGAAGT ATGCTTGGTA
AAATGTACG GTTAAAGCAG TATGTTCTC AGATAGCCTG AGATTTTATT TAACAATTAT GTATCTAAGT CTACTAATAC
ATTGAGCAA AAGAGTGTG GGTNCATAAA TAAGANGTCA GTATTTCACT TAGATTATTT CAGAACTTG TAAGTNCCTG
TAAATAGCTA CTCTGAAA

SEQ ID NO:793: (Length of Sequence = 282 Nucleotides)

GGATGACAT GGTCAATCTN ACTTAAAGA AACATTTTAG GTTCACACTT GCCAAGTTAG GAAGAAAACC AACCTTAGAT
CCCTTCCCC CCACCAATAC TCCTTTCCCC AACACCGTC CCCACCGNC TCTATGTTA ATTGAATTTT TATTGTGAT
ATATAGAAA CCTAACCCAT GGCTGINATG CTGAGTGTCA TTGGCTTCA AGCTCGAACC AGGGAACAGC TTGGCCTGGA
ACCCTGAGAC AAGATGCTGG CTTCAANAAG TGGGGGCTCA CG

SEQ ID NO:794: (Length of Sequence = 330 Nucleotides)

GTGAGGCTG CAGGGAGCCA TGTTACCCC ACTGCACTAC AGCCAGGGTG ACAACAAGAA CCTTCTCGG CGTGAACCCA
GGGGGGGAG TTGAGTGAG CCAAGATCGT GCCACTGCAC TCCACCAGCC TGGGTGACAG AGCAAGACTC CGTCTCAAAA
AAAAGTTTAC TACTGGCTT TAATTATTC GTTTCGGTT TGGGTGAAAT NATTTTATTA CTGACTGGTT CCTAGTTGT
ACAGAAGCCT ATTATCTTA GAGAGACTCT TCATGGTAAT TAACTCAGAT TCTTATTTT CCTGGGTGAA AGGANGGCAA
GTGGATCTAA

SEQ ID NO:795: (Length of Sequence = 332 Nucleotides)

GGAAATAAAG GTGACATGAA CTAACATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT
 CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGANGT GGTATCCAGA
 TAGGTTATCC TTGGAGAGTA TCCAGGGATG TCTCTTNC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG
 AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTNAGAATT CACGTAAGGN ATGATAATCT GAATTTCCAG GGCTAGGCTC
 AGAAGCAGAA AT

SEQ ID NO:796: (Length of Sequence = 305 Nucleotides)

CCCAAGGGGA CAGCCTGANC TCCCTGCTCA TAGTAGTGGC CAAATAATTT GGTGGACTGT GCCAACGCTA CTCCTGGGTT
 TAATACCCAT CTCTAGGCTT AAAGATGAGA GAACCTGGGA CTGTTGAGCA TGTTTAATAC TTCTCTTGAT TTTTNCITC
 CTGTTTATGT GGGAGTTGA TTTAAATGAC TGATAATGTG TATGAAAGCA CTGTAAAACA TAAGAGAAAA ACCAATTAGT
 GTATTGGCAA TCATGCAGTT AACATTTGAA AGTGCAGTGT AAATTGTGAA GCATTATGTA AATCA

SEQ ID NO:797: (Length of Sequence = 337 Nucleotides)

GGCTGCATTA TGACAAGAAG TCAAGCTTCA TGACAGTTAG TATGGGCTGG AGTCTGCAAA GTCTGAAGTG TATTCTCATA
 GAATGATTCC AGGTTTCAGG GTGTTCCACC TGCCAGAACC CAAACTACA ACTATGGGCG ACACAAGGGA AGTTTTAGAA
 ATCTCCCTCT ACACGCATTT CTGGTTTCT ATTATTCTC CATGGCAGCT GACAGATCTG GAAGTGNAA TAGGGGATTC
 TCAAAATCAA AGCCANGAAG ACACCTGTG TGACACCAAT GGAGTCTCAG AGGGTGGGA TAGAAGTGAC TINGNCCAG
 GCATTGTCTG GGAAGTT

SEQ ID NO:798: (Length of Sequence = 341 Nucleotides)

GAACCCGGA AGGTCTAGGC TACAGTGAGC CATGTTTGCA CCACTGCACC CCAGCCTGGG TGACAGAGTG AGACACTGTC
 TCCAAAAATA ATAGTGATAA TAATAATAGT CATTATTTT AAGTCTACAT GCTGAGATGC CAGAACAAGT AAAATTGGAT
 TATAGATTCA AGCAGTATGT AGGTATACCT TCATAAAGT AATACTGATG TAATTTTGA TGATTAAAA CAGNCTTTTA
 GTAGGTGTTT AAAAACTGG NTAATCTCT TCATGNCATT CAAACATTA GGTGGCCTGT CTTTGTTTTT TTAGNTATA
 ACTTGCAAAC ATTCANITGT T

SEQ ID NO:799: (Length of Sequence = 322 Nucleotides)

TTTTTGAGTA ATGAATTCAT TTAATATAAA CTTTASTATA GCAGAATACT ACAGGTACC CACATTTAAC CCTAAAAACA
 AACAAATGAC AGGCACCTCA GTGAAATAAC AAGCCCATGT TCAAATATAA AATGCTAAAA GTGAGAAAGA AATTATGAAA
 ATATATACCT TTAATTTGCA GACATATAAA CACTTTTGGT ACAGTACAGA TGCATGATGC CAAAAAGTAA AATGNTCCAG
 TTTAAGCTAA CACATTCCTT GTTTATACAG NTTATTTTNC TATAGCTCTC ATATAANANA AATATTNCCA GCTCACACAA
 TG

SEQ ID NO:800: (Length of Sequence = 405 Nucleotides)

ATCAAGAGTT GTGTTGCTA CCGACTGAGC CTGCCAGATA ACCCTGTAGT ACAATTTTTN CAGCATAGTG GAAAAGAAAG
 CCATGNTCT GGGCAGGTCA GGGTTTGANC GCTAGTGCNT TGTATTAATG ATCATGATGA TAGCTAGTAG ACAGGGCTTA
 CCAGATACTA GGTGCTCTCT TAACTGCTTT ACATATGTA GTTAATCAT TTAATCTTCA TGACATCACC CCTGAGATAT
 GGGTAATATT ATAATGCACA TTTTATAGGT GATGAGAGTG AAGCACTGC ACAGATTACT CCAGCTTAGT TCATAGCAGA
 GCTGGGACTT TTAAATCAAG GCACTAGATG GTTCAGAGC TTTGTACTAC TCTCTCTGGG TCTTTCACAG TCTGAGCTGG
 TCCGG

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SEQ ID NO:801: (Length of Sequence = 408 Nucleotides)

CTGCGTTCCA TGTAGCGTCT TCCACAGTNC TCTGTTATAA GATGGTTTGT TACATTGCTG CAGATATTTT TGCAITGCTC
 TTGAGTTTCT CAAGACCAGG GTTGTATTTT TCCATGCTG TCGATGAAAC AGTACATGAC AAAAGAAGGT ACTTAATACA
 TGTITGATAA ATTAATTACT GTTGTGTAAG TTAATTATTG AAGGAAGACC CAGACTGGTT CTGATAAATC ATTGATTACA
 TTTTACAAAT TTGGATAAAT TAGGGGAGCC TTGAGAAGTT AGAGCTCTAG GGAAGGTTCC AGGGAACGTT TGAAGGATGT
 GAAATATGGT TTTCAAAAT CATAGTTTAT TGCAGGATTC TGGNATACTT TCCCAAGTGA GGGGNAAGAT GAGGAAGANG
 ATGGGCTT

SEQ ID NO:802: (Length of Sequence = 343 Nucleotides)

ATGAGACTTA CTCACTATCA TAAGAATAGC TTGGGAAAGA CCCACCCCCA TGATTCACTT GGGTCCCACC CACAACACAT
 CAGAATTATG GGAGCTACAA TTTAAGATGA GATTGTGGCTG TGGACACAGC CAGACCATAT TAGACTCATA ATTTGNCCTC
 TGCACAGTAA GANCTGGGCT GGGATACCTC ATAGATCATA AACAAATCCG CACCCATGAA AAGATTTAGA GAGTCACACA
 GGAAAGTCAA CAGAAGNCAG AGAGATGTGG GTCCTGGNCT TGCATGTCAT TAAGTGGTGG GNTCCTTCAG CTTTCACATN
 TTCAGGCAGT GGGGTCAAGA AAC

SEQ ID NO:803: (Length of Sequence = 182 Nucleotides)

GAATGGCCTT NTCTAACGGC ATGTATGACT TGCATGANT CTCTAAAGCT GAACITGGCT CACCTCANCC TGTCTTGCTG
 GCAAATGCGG CCTTCAGTGG GAAAGTAAAT GGCAGCTGCT GTNATTACCT GGTGNTGAA GAAAGACAGA TGGCAAAAT
 NATGCTGTGTT GGGGATGACA GC

SEQ ID NO:804: (Length of Sequence = 312 Nucleotides)

TTTATTACT GCGTGTGTA AINATCACAA AACATATTCA TTGTCAAGTG AATGCACAGG CTTTCAAAGG TGATTGTATT
 CTGCAAGGTG GGGAAATAGC AACTACCTTC TAAGGTGAAT GTNCAGCCTG CCATTTCCAA CCCCAAACT CCTCTAGATT
 CTCAACAGGG CAGCTTCTGC TTCATGCCCTC TMTTCGGAAA GGTACGCCCT GTGTAGAAGG CTTAATACCA ACATGCAGAT
 CCACCTGAGA ATCACTGGAA TGCTCTGGAC CCAGCTGGAA TGCTTCGGAA ACCCAGTCAG GCTTNOGGAA AT

SEQ ID NO:805: (Length of Sequence = 411 Nucleotides)

CATGCAAAAT TCAGAATATA AAAAANTGCA GGGCCTGGTT GCCACATAC ATTCTCAGG TTAAGGTGGA TTTAAAGATG
 CCCAACAGAA CCCAATGAAT CAGAAGCTAA AAGGGACACT TCAGTGATCA GCAGACGCAT TCTCTCACGT AACAAATGGA
 GGGAAAGTGA GCACACATTA ACTAGCGAAG TCACAAGGCT AGATTAGGGG TGTACAGAAA TCTAATTCCT GGTGCTATTT
 GCAACTACAT ATATTTAAAA TACANGGAGA TAAATACCCA GAACACATTA AGCCTACTGA TTTAAACAGA NCATTTCAAG
 ACTGCTACAC AGAAAGGGAA GGAAGCTGT TAACCCAGCA CAGCAGCACA CCTCACATAT TTCCGTCTCA GAGGTAAAT
 GGAAGGAAG G

SEQ ID NO:806: (Length of Sequence = 287 Nucleotides)

GCATTINAGT GCTGATACAG ATACAGTGAG TTCTTGCCCT TTCTCTCTCT NIATATTGAA GGGATTATAA ATGAAGCTCT
 TTAACATTC TGAGATCINT AAGTTGATTT CTACATGAAC TCCAAGTGGT GTTAATGACA TTTTCAGAAA AGATGCTTTA
 CTTAGCTGAC AAGAAAAAGT ACTCTGTAA GCTTTATTTG TATGTGATAA AACAGAGTTG ATAAATAAT CTACTATTAA
 CTTATCAATG CAGTCTTACA GAATCCACCT ANTTACAAAG TAGATAA

SEQ ID NO:807: (Length of Sequence = 369 Nucleotides)

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GGCAGATATA ACCTTTTCTC AAACATCTCT AATTGTCTGC ATACCCCACT AATATTGGCT ACATAATACA TTTATTTTTC
 TCATTTGGGA CTAAGTGCCT TACTTAGTTT TGINCAGTGT ATTCAATTAAT TGAAGAAATA CTTATTCAGG ATTTCTATTA
 CTTAGTTTTG CTCAATATAT TCACTAATTG AAGAAATATT TATNCAGGAC TTCCATTATA TGAGCACTGG CCTTTGTGGT
 ACAAGATAC AACATGAATC TGAAACTCAA TTTAATCTAG AAAGATTTAT TAATATAANC TCATCAGAAA AGCAAGNCAT
 CTACTGTGAT AGCTACAGTA TTGGTTAGAA ATGGAAAGAG AGAGCAGAT

SEQ ID NO:808: (Length of Sequence = 361 Nucleotides)

CAGGCTTTGT ACCAGCCGCC ATACTCTCCA AAAGATGTCC CATCCTTTIN CTTTCTTTG CATTCTTCTC TTTCTTCAGC
 ATGCATCCAG ATGGGTTTAT TTTTCATCCT TACAGAACCA AACTCCCTTT CATGTGCACG AGTGAGAATC TCTTTGTACA
 GTGTTTCTGC TTGCTTGAAC TTTCTTTGTT TCAAATAGCA GGATGCCAGG TTATTTTINCG TCTTAGCCAC GTTGGGGTCA
 TCAGGTCCCA GTTTTGTCTG GTAGATCTCG AGGGCTCTTT GATAATAATA TTCTACTTCT TCATACTTGC CCTGGGTTCT
 GGCACAGTAA AGGCCAAGTT ATTTAACTGC TTGGCAACAT C

SEQ ID NO:809: (Length of Sequence = 353 Nucleotides)

CTAATTTATC TTCATGTCCA GTGAGCAGTG TTGCGTTTTT CTTGTAGCA TTGGAAATG ATTTACTGGA ATTACAAAAC
 CTATTTTCCC TTAAATTTT AGCTTTGGCT CTGGCTGCTT TTTAGAATAA TGCAAGATAA AAATCACACC TGAGGGCTGA
 AAACGGAGAG GGAATGGGAG ACTTGATATT TAAGCAGCTT GAATGGTTTT CCNTTNCCTT ATTTTAAAG AAATGCACTT
 GCCTATGATA CTGTCTCTCC AGTGAAATGA TTAATCTCTC ATTACTCTAT TGATACANTA TTGTGCATGC TAGTGTGTGA
 TTCTATACA GTAGCTTGAA AATTGATTAA CCT

SEQ ID NO:810: (Length of Sequence = 296 Nucleotides)

GAGGTCAATG CTTCCAGGC TCGAGTTGAT GCCCACAGGT GTATGTACG AGCATTGAAA GATCCAAATG CATTCTTTTT
 TGACCACCTT CTTACTTTAA AACCAGTCAA GTTTTTGGAA GGCGAGCTTA TTCATGATCT TTAAACCAIT TTTGTGAGTN
 CTAAATTGGC ATCATATGTC AAGTTTTATC AGAATAATAA AGACTTCATT GATTCACTTG GCCTGTTACA TGAACAGAAT
 ATGCAAAAA TGAGACTACT TACTTTINATG GGAATGGCA GTAGAAAATA AGGAAA

SEQ ID NO:811: (Length of Sequence = 493 Nucleotides)

CCAGGAGCTT CTCCTCTCTT GCCAGGGCTA TGAGCAGAAA CCTCAAATAA ACCCTGGGCA GAGAAAACCA ACTTAATGAA
 GAGGACGTTG CTGTTTCCAC TGGCTTCTAA TTTTGAGAT GCAATGAGCA CTTACGGCTT TTGCAGTGGT TCAGGAAAAG
 GCAAGAAGAA GCAGATTGTC ATGTTCCAAA GCCCTCIGAT GGCTGCATGG AGCCAGGGT GCTGTGACTT TTTTAAATAG
 CTTCACTACC TTINATACGT ATGTCTTAT TTAATCTTA TCTATGCTCT CTTCTCCCA TCAGCCTGGG AGCTCCCTGG
 GGCAGGTCTG TTTCTCCCT CCACTCCGA NITGCGAGGA GCTGTGCCTC CCCCATCACA CTTGGAGGCT GTCTNAAGGC
 AGGGGCTGTG GTCTCTGCCA TTAGACTINGA AGCTCCCCAA GGTTAAAGGT CATATCCTCA AAAAAGCTTA GAATAGCTTA
 GGAACCTAGG GGT

SEQ ID NO:812: (Length of Sequence = 337 Nucleotides)

AAATTCACAT ACTGTAAAGT NATGCAAGCA AATTCTCACA TAATTATTTT TAAATGCTAG ATAGTTGGTA TAATTNCAAT
 CATTTTAAAT ATGTTAAGAC TTGTTTGTGA CCTAACATG AGGTCTATNC TGAAGAATGT NCCATGTGCA CTTGAGAAGA
 ATGACTGGAG TGTTCTTTAT ATGTATGTA GGTCCAATTA GCTTATAGAA TTGCNCTAGT CCTCTATTTT CTTATTCANC
 TTTTGTGTTG TTGTGTTTCT ATCCATTATT AAAAGTGGGG TATTGAAGTC TCCTACTATT ATTTGTCTAT CATCCTCAGC
 AAATAACAC AGGANCA

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SEQ ID NO:813: (Length of Sequence = 310 Nucleotides)

AGGTGGCCTC AGNNCAGCCA AGCTGACCTT GGCACCTGGC TGGCTTCTNT AAGGCANTAG AGTGCCACACA CATAAGCNCA
 CCACCTNTCC CCACCTCCTC CCTTCTCTCC CATGCCACCC CACTTGCTTC CAAGGGCTTG GTTCCCAAAG TNACATCCAG
 GGTGTAAGAG GTTGGGGAAA ACGTCTGCA AGNTGGCTCA GGGATCTNAT TCCATCAGAT GGTCTCATGA ATACTGTGGG
 AGATTAAATC CATCTCAAAA TAGGCAACCA ATGCTATATT CTGAATNTNA GGTCTCTGGA CTGAGTCCCA

SEQ ID NO:814: (Length of Sequence = 361 Nucleotides)

GATTTGAGCC ATCAGAAATC AGCTTTTGTA GATAAAGAAT ATGAACATAAT TGACTATGGA TGAATTATT GTATATAGTC
 AGCTTGCTGA ATTATTGGTT AAGCACTACT AACTATATCT TGGTAAACTA TGGTGCAACT GAGCCACCCC CTAAAAGCAA
 AAGACATTTA GCAGTTCACC ATATTTTGCA ATTAACCAAA TGAGAGCCTA TGAGANTGAA ATGNTTTCAG GTGGAGTTTG
 ACAATACAAT TCATCCNTAA TATATAGGGN NAAATATTTT CTCAAAAATA ACATCTATGT GGTAGGNCCT TAAAAACGAT
 GGATGNAATG CATGCAAAAT TCTCTGGTAC ACAGACACAT G

SEQ ID NO:815: (Length of Sequence = 301 Nucleotides)

GAATTTNACT CTTGTTTCCC AGGCTGGAGT GCAATGGCAC GATCTTGGCT TACCGCAACC TCCGCTGCT GGGTCCAGC
 GATCTCTCTG CCCAGCCTC CTGAGTAGCT GGGACTACAG GCATGCGCCA CCACGGCCAG CCAATTTTTC CATTTTNAGT
 ACAGACGGGG TTTCACCATG TTGGTCAGGC TGGCTCTGAA CTCCCGACCT CAGAGGATCC GCCCACCTTG GCCTNCCAAA
 GTGCTGGGAC TACAGGTGTC AGCCACCACA ACCGGNCTAA TTAATACTTC TTGAAATTTC A

SEQ ID NO:816: (Length of Sequence = 310 Nucleotides)

ATCTTTAACA TATTAAATA GACATGAGAA AAATGTGTCA TTTGATAAAA TGGGGGAAAT GTAATAAATG ATTACCAGAA
 ATATAAAATT AAGCCGTATA TGCNCTTAAG TAAATCGAAT CTAGGCATCC TTAAAATGTA AAAAAGGNTG CAACAAGAGT
 AAGNGCCCA GAATGATGTA AATTACAGGA ATGGGGTGTA ATGTAACCTC TAGAGGAGGT GATGTTTAGA AGAAGCAAAG
 NGAATGCAAT GANGAAGCAA ACTTGTTTTA GGCAATNCT CCTGGGAGTG GGACCAGGCA GCCCCCTCTT

SEQ ID NO:817: (Length of Sequence = 225 Nucleotides)

TGGCATGCGC CTGAGTCCC AGCTACTCAG GAGGCTGNGG CAGGAGAATN CCTTGAACCC AGGAGGCAGA GGTGCGAGTG
 AGTCGAGATT GCACCACTGT ACTGGTCTCA GCCTAGGCAA CAGAGCGAGA TTCCATCTCA AAAAAAAAAA AAAGTTAAAA
 NTAATATGCT AACTATGATA CAACTGATA GCAATATGT CTTTAGATTC AAAATAAAAA TAGGG

SEQ ID NO:818: (Length of Sequence = 225 Nucleotides)

TTAAAAAAC CTGAGTTTC ATTACCTTTT TGAATAATGN CATACAAAAA ATGTATTTGN TTTTTTGTG TGAGAGAATT
 GATGTTTGTA GATTAATAAT CATTTTGTTC AGAATTACAA AATAGTTTTT AAATATTGTC TGAGAAAAGC CAAAGTTAAT
 GCAACCNAGT GGAACTGTA AGACNNTTG AGTATTGTTT GTTTTATTGG ATGCATTGG ATTTT

SEQ ID NO:819: (Length of Sequence = 280 Nucleotides)

TTGACTAGCT TCCTACGTCA TTAAAAATTC TTAAATAGT CTGTCTTAAT GGCTGCAAAT TTGTGCTAA GTCTGGGCTA
 AAATCTGATG AAATGTTTTC CCTGTGGTTC AGTAATTTAG CAACTCGTAT CTTTTTAAAA TATTACAACCT GGGNATTCTA
 GTACGTACAA AACATTTGTA ATATCATTTA TTTGTGCTCA TTGTCTGTGC TATGAAATAC AGTAGAATGA AAATTTACTT
 CAAAGCATTC ATINTCTTCC CCCAGGNGAT GATGGCAAAA

SEQ ID NO:820: (Length of Sequence = 328 Nucleotides)

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CCAGTTAATT TTGTAAAGTT TATAGNGATG GTTTCAGTTA GACCTGTGCT GTCAATACAC TAGCAATTCA CATGCACATT
 TAANTTTAAA TCTAAGTTTA AATTTAAATT AAGTTAATAT TAAATAAGAT TTGAAATGCA ATTCTCAGTC CTACAAGCCA
 TGCTTCAAGT GCTTCATATC CATGTGAGGT TAGTGGCTGC TATACTGGNT AGTGCAAAAA GAGAACATTA TTGTAATCAT
 AGAAATCTTA TTGGTAAGTT TATGGGGTAG TACATGGACT AGAATGTAGT GAGGTAGTGA GCTGTGGATG CAGAGAAAGG
 NCACTGGA

SEQ ID NO:821: (Length of Sequence = 310 Nucleotides)

TCAGCATGTG TTTCTGTATG TMTTGAGATG AITATTGGT TTCTTTTTT ATTGTGTAA TTTGGTGAAT TGCATCANCT
 TTAGTATCTT AAACCAACCT TGCCTCTCTA GGGTAAACCT TATGTGGTCA TAATATATAA NCCTTTAAAT ACATTATTGG
 ATTINCTTTT TTAATATATT GCTGAGGATT TTTCATGACT ATAATCATAA GAGATATTGG CATATGATTT CCTATACTTG
 TAATGNCTTT GTTAGAAGGA GTTTATATTA GNTTTATNC TGGCCTCATA AAATGGGTTG AGAAATGTCC

SEQ ID NO:822: (Length of Sequence = 372 Nucleotides)

GCCAGATTGT NTTCCTTGG AGCCCTGAC CCGGCTACT CTTCACCAGA CACGGCCCCG CTTTGGCCCCA CAACACAGCC
 GTCCACCCCC TGGTTCTTC ACCTTAGCAG TAGCAGTAGC TCTGGGTGGA GTTGCCAGAG GAGCTGACAG GCCCTCTGCC
 ACTGCTGCCA CCCCCAGGGC TAGGGAGGGA ACAAGAGCC TGCTTGCTGT GCTTGACAT CCAGCATGCC ACAGCTGCAC
 TACGGNGAGG AGGTCAGACA GTCCCCCAA CAAGNCCCCG ATCCCTCTNC TCTCCACCAG GGAGGGCCCT GGGCTTTGGG
 CCCACAGNAC AAAACGTTCC ANCCCGGGCT GATCATTCTG GGTGGCAGC GG

SEQ ID NO:823: (Length of Sequence = 288 Nucleotides)

AGCTGGCATC CTTGGGGAAA ACCAACGAAC AGTCTCTCA CAGCCAAATT CACCACAGTA CTCCAATCCG NAACCAAGTG
 CCCGATTAC AGCCCATCAT GAGCCCTGGG CTNCTTCTC CCCAGCTTAG TCCACAACIT GTAAGGCAAC AAATAGCCAT
 GGCCCATCTG ATAAACCAAC AGATTGCGT TAGCCGGCTC CTGGCTCACC AGNATCCTCA AGNCATCAAC CAGCAGTTCC
 TGAACCATCC ACCCATCCCC AGNGCAGTTA AGCCAGNGCC AACCAACT

SEQ ID NO:824: (Length of Sequence = 325 Nucleotides)

CTCTGAGGT CAAAGCTGCA CGTGGGAAG AGAAAGACAA GGAGACCAAG AATGCTGCCA ATGCTCTNC ATCCAAGTCG
 GCCAAGACCG CCACTGCAGG ACCAGGAACCT ACCAAGACGN CCAAGTCATC TGCTGTGCC CCAGGCCTCC CTGTGTATTT
 GGACCTGTGC TACATTCCTA ACCACAGCAA TAGTAAGANT GTTGATGTGG AATTTTCAA GAGAGTGGG TCTCTACT
 ACGTGGTGAG TGGGAATNAC CTTGTGCTG AGGAGCCCAN CCGGGCTGTC CTGGGACGCT TTNTTTGGAA AGGAAAAGGC
 TCACT

SEQ ID NO:825: (Length of Sequence = 318 Nucleotides)

AATCAGCCCT ACAGCGATTG CTCCACCCC ATTAGCAAAT ACCGTAATAT ATGNCTCTAG TAATCATCCT CTCACAATTC
 TNCITTTCTT AATTNNCCG TGAGTCAAGT TTCTTGACCA CAATGTTATG CTGAGGAAGA TCTAATGTTT TCCATGGAGC
 AGAAATTGTT AGTCTCAAC TCCAAGGTCT GCCTGTGCAA GCCGTGTTN CCGTGTCTC ATAAACCTTG TCAGGCATTT
 ATTTATTCAG CACATATCTA CTGNTCTCTG CACAAGAAIT CATAAGGTTG TGATGAATTA TGTCCTTCT GAGTGGGA

SEQ ID NO:826: (Length of Sequence = 287 Nucleotides)

TACAGACTCA GGTATAGGG TGINATTTT TAAGTCAATA TTCAGTTTCA CAGCCAGAAT CTGTGAAGAG AGAACAAACC
 ATGAGAAAAC TAACANTTT ATGGTGATTG AGAGGTTCCA AGTNCCTGNN GTTTTAAAAA AATCAGTTTT TAAAGATAAA

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CAAACCTAAAA CTAGTCCAAG CACTGAGACA GAGTATTAAA AGATGGTAGC ACACCCAAAG NGCACGGTGG GTCTTGAATA
GCTAACATGT TTCAAGTAGT GGAGGNAGAT GTGCTTAAAT AGTTACC

SEQ ID NO:827: (Length of Sequence = 426 Nucleotides)

TTTTTTTTGT TTTGGGACAG AGTCTCACTC TGTACCCAC GCTGGAGTGC AGTGGCGTGA TCTCGGCTCA CTGCAAGCNC
TGCCCTCCCGG GTTCATGCCA CTCTCCTGCC TCAGCCTCCA GAGTAGCTGG GACTACAGGG GCCCGCCACC ACGCCCGGCT
AATTTTTTTG TATTTTTAGT AGCGACAGG TTTCAACGTG TCAGCCAGGA TGGTCTCGAT CTCTGACCT CATGATCCAC
CTGCCTCGGC CTCCCAAAGT GTTGGACTAC AGGCATGAGC CACCGCGCCC GGCCGGATGG TTAAAAACATT TTAAAAATAA
ATATTTTAGTG CTAAGACAGG ATATGGAGCA ACAGGAACTC CTATATGCTT GCTGGTGGGG AATGCAAAAT GGGTACAACC
ACTTTTGGGA CAAACAGTTT TAGTAA

SEQ ID NO:828: (Length of Sequence = 402 Nucleotides)

GGCTGCTTGC TCCACTCAAA CAGGTATCTG GGAGCCAGCA CTCTGGCAGT CCTTCTAAGC TCTAACTCTG GTTTTACTGT
TTTNNAGGTG AAACCTTTGT CCTGGGGAAT AGTCTGGCCC GCTCCTTGGA ACCACACTCA GACTCAATGG ACTCTGCCTC
AAATCCCACC AACCTTGTCA GCACCTCCCA AAGGCACCGG CCCTTGCTTT CATCTGTTGG CCTCCACCA AGCACTGCCT
CAGCTGTGCG CAGGCTATGC TCCAGGGGTA AGCTTACCAG AGTCTGGCC CTNCTCCCT CCTCACTCT TTCTTCACT
TCCTTCTGA GCTCTGGGAG GCCAGAGAGG ACCTAGCTCT GTTGCCCTCT GNTCTGTTGT GGGGACTAGG GACTGGACTT
AA

SEQ ID NO:829: (Length of Sequence = 417 Nucleotides)

ATCGGTIAGG AGTCGGCTTT ATGTGGGAAG AGAGAAAAAA ACTTGGTGAA ATGCTTCTG GACTAATTGA AGAAAAATGT
AAACTACTTG AAAAATTTAG CCTTATTCCA AAAGAGTATG AAGGCTATGA AGTACAGTCA TCTTTAGAGG ATGCCAGCTT
TGAGAAGGCG GCANAGAAGC ACGAAGTTTG GAGGCAACCT GTGAAAAGCT GAACAGGTCC AATTCTGAAC TTGACGATGA
AATCCTCTGT CTAGAAATAG AGTTAAANGA AGAGAAATCT AAACACTCTC AACAAGATGA ACTGATGGCA GATATTTCAA
AAAGGATACA ATCTCTAGAA GATGAGTCCA AANINCCCTC AAATCCACAA ATAAGCTTGA AGNCCAAAAT CATTCTINGCA
AGGTTTCTTC CCAATGG

SEQ ID NO:830: (Length of Sequence = 404 Nucleotides)

GGTTTGAGAG TAGAACAGGA AGTTGTGAGT AGAGCCTTGA AGGAAAGAGA ACAGCAGGTG CATGGNTCCC CAGGCAGGAC
TCAAGGTAGC CACTCAGGCA TCAGAAAGAG TCAGGCGGCC ATGATGGCTC ACACCTGTAA TCCCAGCACT TTGGGAGTCT
GAGTGGGTG GNTCACCTGA GGTGAGGAGT TCGAGACCAG CCTGACCAAC AGGGTGAAAT CCTTCTCTA CTAAACTACA
AAAATTAGCC AGGTGTGGTG GCACATGCCT GGGACAAATT TGGGATCAGT GTTCTCCAGT CTGAACATAG TCTTCTGTAA
CCTGGGAGAG AGTGGTCAGG TACTTCCAGC TTCAGGGCAG CCAAAAGCAT TGACAAAACG ACAGGTAGGA TGGGGGGAGT
AAGT

SEQ ID NO:831: (Length of Sequence = 330 Nucleotides)

AATTTACAG GTTGTGCTT CTGAAATCTG TACCTTCTTA CTCATAACAT TTAATGTAGC ATTTCTCAAC CTGACCAATC
TGCAAGAAAT ATATGTCATA TATTAAATGT GTATACATGA ATATATGCAT TTTCCTGGTA AAAAGTCATA GTTTTNCATA
GATGTCATGT AATCTTTTAA GAGATTCTCA AATAGGAACA TGATTCCACC CCAATAATGG TGAAAAATGA TCAATTTAGA
TGAAAGGGAC CTCAACAAGC CTCTTGAGAT ATGAANCATA AAGAGNAAAT ATAAGCCGCA ACTTTTTGAC ATGACAGATT
CATAATGGTT

244

SEQ ID NO:832: (Length of Sequence = 402 Nucleotides)

CTGTTTCTC CTTTGTITT CCTATTATN CTCCAGTGC TAACITGATA TCINCTGTG TGTACACGTG TGINIGTGTG
CAAATATATT TCTAGGAACA AGAGCAAACA TTCTAGTAAC TATCATTCCTC TGATGTGGAG AACITGGGCA GAGATCTGAG
TTACAGCTTT GTGGATTAT TCTCTCTGAT GAGAGATCGC CCCTTAGAAT GTCATGGTCC TAACCCCGTC ATGGATACCA
GGGGTGAATG GCAGGGTCTT TCTCCTGCCC AGGAGGAAGG GTATGGGGAG CCGGTGCATC TTGACTGTCA GGTCACTGT
CTTACCACCT TTACAGCTAG GCTTTCTGAG GTGCCAGGT CTCCTGGGAA TTCAAACGT AGTTTAGAGG CAAGCTGGGT
GA

SEQ ID NO:833: (Length of Sequence = 398 Nucleotides)

AGCCTTTTTT CAGAGATCAG ACCTCTTTAG ACATCTGAGA NITCATAACAG GAGAAAAACC TTATGANTGC AGTGAATGTG
GAAAAGGCTT CTCCAGAAC TCAGACCTCA GTATACATCA GAAAACCTCAT ACCGGAGAGA AACACTATGA ATGCAATGAA
TGTTGGGAAGG CTTTACACAAG AAAATCAGCA CTCAGGATGC ATCAGAGAAT CCACACGGGA GAGAAACCTT ATGTATGNC
TGACTGTGGG AAGGCCTTCA TCCAGAAATC ACATTTCAAC ACACATCAGA GNNITCATA TGGAGAAAAG CCGTATGANT
GCAGTGAATG TGGGGAAATC CTTTCACTAN GGNAGTCACA ANCTTCCATG TGCATCAAAG GNTTACANC CGGGGAGG

SEQ ID NO:834: (Length of Sequence = 394 Nucleotides)

CTTTTTTGT AGTCGTAAA ATCATTTCOA GGTAAATCT AGAGCTTAAT CCATATGNG TGCCATCTTT TGCTTTTCCA
CACCTCINAT CCTAGGTAAG TNAGAGCTAA CGAGTATTIN CTGAGCTTCT ATTATGGGCC CAGCATATGT NATAATTCTT
TTTACACATA GGAATCTGAG GCTTAGAGAA GTTACTGAT TTACCTAATG GCACACCATA AGINCTGGGG CTAAGATTTA
AACTCAGGTC TCTGACTTA ATTCAGATGG TCAGCTCGAT GGTAATCATA ATAATATTGT NGTGTGTGTT GTTGTGTGTA
TNIATCAACA ATAGTAGTAG CTAAGTCCAT TTCATGAAC AGCTCATTGG ATAGTCCCAT NTGGATAATT CTGA

SEQ ID NO:835: (Length of Sequence = 422 Nucleotides)

GCTTCTGCC TCTATAGATT TGACTATTCT GGACCTTTCA CATAAACGGA ATCATGTAAT ATATATAATA AGCAAAAGGT
AACAACAACC AAGCTGGCAA TTTGGTGTGAT GAATGANTAA ACAAAATGTG CTGTATCCAT ACAGTGGAAA TATTGGTGCC
TACTACATGT GGATGGACCT TGGAAACATC ATGCTGAGTG AGAGAGAGCC TTGGTATTGT TTCATCTCCC CAGGAGATTC
CAAGGTGCAG CCAAGGTGA GACCCACTGA CAAGCAATGG ATATGGTGG GTGCAGATGA AATAAGGCAG CCAGGGGCAG
GAGGGATGTC TCATTGAAGA TGACTGTTT GTGGGATGCC TAGCAGGGGT GGGGGGATGA GGTATTGATA ACCAGCAACC
CCAATCTTCA ACACAGCGTG GA

SEQ ID NO:836: (Length of Sequence = 408 Nucleotides)

CTCAAAAGAG TTGGCATCTC AGAAGGGAAG TGTAAGINAG ACAATTGTCA TTGATGATGA AGAGGACATG GAAACAAATC
AAGGGCAAGA GAAAAATTCC TCCAATTTTA TTGAACGAAG ACCTCCTGAG ACTAAAAACA GAACCAATGA TGTGGATTTC
TCCACTTCCA GTTTTCAAG AAGTAAGGTA AATGCAGGAA TGGGTAATAG TGGTATCACC ACAGAACCAG ACTCTGAAAT
TCAGATTGCT AATGTTACAA CTTTAGAAAC AGGTGTAAGC TCTGTGAATG ATGGCCAATT AGAAAATACT GACGGGCGAG
ATATGAACTT AATGATTACA CATGTAAACA TCACTGCAGA NTACCCACTT GGGAGGATTG TCTCTAACCG GGACTGCAGT
CCAAGTAA

SEQ ID NO:837: (Length of Sequence = 347 Nucleotides)

TGCTCTGTT GCCCAGGCTG GAGTGCAGTG GCACGATCTC AGCTCACTGC AACCTCTGCC TCCCTGGGTT TAGCGATTTG
CCCTGCCAN TCTCTCAAGT AGCTGGGATT ACAGGCATGC ACCACCACTC CTGGCTAATT TTTGTATTTT NAGTAGAGGC
GGGGTTTTGC CATCTGCCT AAGCTGGTCT CGAACTCCTG GCATCAAGTG ATCCATCCAC CTGGTCTTC CAAAGTGCTG

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GGATTACAGA CGTGAGCTAC TTCACCTGGC CTGTGTGGCT CTTTTTCAAA AAAAGTTTAC TNGACTCTTG CTTTATTGCA
AGTCCCAGAA TGGATTTGAT TTAGGGA

SEQ ID NO:838: (Length of Sequence = 275 Nucleotides)

AATTGCCAAG GAAAATTTTA TTTTAGCTTT GCATTAACAT ATTCTAAATA ATCCTTTCAC TTAATGCAAT CAGATTCTCTG
TGACAAGCCA AATACTTGTT TTTTGTGTG TGTGTGTTT CCCTTCACIT TTCATTGTAT GCCCTTCAGA AAAATCTGAG
AAGTGGGCTT CCATTTTGA AAAACAGGAC TTCCTTAGTA CCATAGATAC GTAGATTGCA ATTTCCTTT TCCTGCAGCA
TACTGACCT TGTGAAATGA TGCCTATGGA TACGG

SEQ ID NO:839: (Length of Sequence = 387 Nucleotides)

TTTTTGINIT GTGTGTAGAG ACTGGGTTTT NCCATGYNCC CAGGCTGGTC TTGAACCTCT CGGCTTAAGC NATCCTCCTG
CCTTGACTTC ACAAAGTGCT TGANTTACAG GTGTGAGCTA CCACGCCTGG CCATGTTTTT TGTGTGAAG GATCTGTTTT
GTTTTATATC TTCTGTGGC TCATATCTAA TTTAGTTGAC AGTACCTGTG GGTCACIAGG TAGACATTGC TAGCAGACGT
TTAGAAATGA AATACTAGAG CTGGGAAAA AGTTGATATT TGAGATAGAG ACTTGAAGAA CATTAGCAGA GAGTTGGTAG
TTAAGGTCTG TGAGCTGGTG AGCAATTCAA AATAAAGCA GAAGAGAAGA GGAAGACAAG GTCAAC

SEQ ID NO:840: (Length of Sequence = 367 Nucleotides)

GTACTAAAGC CATGCAGGAA GGAGGAAATA ATCAGTGAGC CACGGGCTGA ACTTGTGGAA AAGAAATGGA GGGCAAGGTC
ACAAACCACT CCTAAGTGC TTCTAATTTA ATGTAATCCT CACTGTTTTG CATTATGCT TTINATGGCC ATGAAATCTG
TTTTTCCCA GINCTCTAGT GTAATTGGA ATTAATTTCC CAGCTGCTTT ATTTTTTTCC TAGAAGAGTC GGGGACATTT
TCAGGATTAG TAGAGGTGTT TCTACAACAC CTTTCATGCCT TCGATAGTGT GTAAGAGTTC ACCAATTGAN TTACCTTATT
CTGTTTCAGAA GTAGTAACTA TGGAGTTTAA CCACTCTGGG ACATAAT

SEQ ID NO:841: (Length of Sequence = 346 Nucleotides)

TGGAAGGAA AAGCAAAAGA TTGAAGAATA AAAACATTTT GTATTTGCCA AAACITGINC TGTAGCAGTA AGTGTGAAAC
AAGTTTGCTA CATTTTCCTT TTTGGTTTTA CTGGTTGGG GCTTTTTTGT TTGGTTGGTT TTAAAGGATT TAGGGGATTG
GCAAGTCAGT TTGTGAGATG TCAATGAACA GAAAACCTAA GAAAAAGGT AGCAAAAGTN CTGCTGGCCC CAGATGGATT
TTCCTTAAG TAATTTCTTA ATCATTAGTT ACAGCTCTGT GTCAAAGAT GTACATAGAA ATTTATGCTA GATTCTTAAC
ATCTTCCTT ACTGTGTGCA GAAATG

SEQ ID NO:842: (Length of Sequence = 326 Nucleotides)

GTCTTTTGAA ACAAACGAGA ACAAAGACAC AACATACCAG ANTCTCTGGG ACACATTCAA AGCAGTGTGT AGAGGGAAAT
TTATAGCACT AAATGCCAC AAGAGAAAGC AGGAAAGATC TAAATTTGAC ACCCTAACAT CGCAATTAAA AGANCTAGAG
ANGCAAGAGC AAAGACATTC AAAAGCTAGC AGAAGGCAAG AAATAACTAA GATCAGAGCA GAACTGAAGG AGATAGAGAC
ACAAAAAACC CTTCAAAAAA TCANTGATTC CAGGAGCTGG TTTTGTAAAA GTTCAACAAA ACTGATAGNC CACTAGCAAG
ACTAAT

SEQ ID NO:843: (Length of Sequence = 380 Nucleotides)

GGCCTTCAAA TTACAAAAAG CAATTTACAT TATAGTAATA GTTCATGTTT ATAGTACAGG AACAAGAATG AGTTAACTA
AATATTCCAA ATCAGTACAA GINATNCCT TTTTTTTTTT TTGAGACAGG GTCTCACTCT GTACCCAGG CTGTCTGTCT
TTGTCATCCA GGCTGCAGTG CAGTGGAGTG GTCACAACTC ACTGCAACTT CAGCCTCCTG GGCTCAAGCA AGCCTCCCAC

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CTCAGTAGCC TCCACTCCT GATTAGCTGG GACTACAGTG AATGTGTGCG CATGCCCAGC CTAGTGGTAT TTTTAACAGA
TAANTAAGAA TGGAGGTAGT GGCAGAGGTG GAGTGAGAG AGAGACANGT AAAATATAGG

SEQ ID NO:844: (Length of Sequence = 257 Nucleotides)

TTTCCCTCTC GTTGCCGAGG CTGGAGTGCA ATGGCGINAT CTTAGCTCAC CACAACCTCT GCCTCCGAGG TTCAAGCAAT
TCTCCGCTC CANCCTCCCG AGTAGCTGGG ATTACAGGCA TGTNCCACCA CGCCTGGCTA ATTTTINTATT TAAGTAGAGA
TGGGGTTTCT CCATGTGGT CAGTCTGGTC TCAAACCTCT GACCTCAGGT GATCTGGCCA CCTCGGCCTC CCAAAGTGCT
GGGATTACAG GTGTGAG

SEQ ID NO:845: (Length of Sequence = 420 Nucleotides)

CTACACACAT CTTGCATTAC CTGGCAGTAA GCTTGGAGAG TAAGTTTTGC AGATGCAGAT CAGAAGAGAT TAGGAAGAGC
TTTGAGATC ACCGCAAGTA TTTGTATTTC ACTCTAAATT AACAGAAAA CCCAGGAAGG GTTTTAGGCA GATAAATGGC
ATTATTTAGT TTCTGTATTT AAGTCATCAT TTAGGTTACT GGGGGAGGCT GCCTGAAGT GGATCAGAAG TAAAAGGCAG
AGATAACCAGC TAGGAAGCTG TTGCAGTGAG CCAGGTGAGA AGAGAGGGCC ACCTGGACCA GGTAGAAGCA GTACAGGTGA
AAAAANTCAG ACACTTCCAA ATCTTCTCA AGATTNATA CATTATTTGG CTGGGCACGG TGGGCTCACA CCGTAAATC
CCAGCACITTT TGGGGAGGCC

SEQ ID NO:846: (Length of Sequence = 215 Nucleotides)

GNCTGGGTGA CAGAGTGACC CTGTCTCAA AAAACAGTGA TTGTTGTAA GGAAATTATT AAAACCTTGG TTCAATATCC
AATATCTTAA CTTTAAATTT TCAAATACIT CAAACTAGT AAGTATTACT ATGTCTAAG CACAGTGCAG TCCAACGGAN
TATGTAGGCC ACATATATAA TTTTAAGTAG GCCAGTAGT ACAATTAATAA GAAAA

SEQ ID NO:847: (Length of Sequence = 266 Nucleotides)

ACACGAAGAA TCTCTTCAT CGCCAAACAG CTTTCAGAGA TAGATGCTTT GTTTCCAATC GAGCATGCTA TTCCAGTGTA
CTGACATAC TGTAACCTC GTGTTAGGCA CCTTTATGAA GAGATNAAGN CACTGGCATT TCAGTGGGAT TTTAAGCATT
TTTAATAGCT TCATGTACAG CATGCTGCTT GGTGNACAAT CATTAAITCT NOGATATTTC TGTAGCTTGA NTGTAACCGN
TTTAAGAAAG GTTCTCAAT GGTTC

SEQ ID NO:848: (Length of Sequence = 275 Nucleotides)

CNCCTCGGTC CCCTTTTAAA AATTACTTTT CAGCCGGGCA TGGTGGCTCA NGCCTTGTA TTCCAGCACT TTGGGAGGCT
GAGGTGGAG GNTCACTGA GGNCGGAGA TTGAGATCAG CTTGACCAAC ATGAAGAAAC CCGTCTCTA CTAAAAATAC
AAAAATTAGC CGGGGCTGT GGCACATGNC TGTAAATCCAG CTACTCGGGT GGCTGAAACA GAAACCACCA ACGNCTGACC
TCAGGGAGAT GTCTAAGAGC TTCTGGCATG CCTCA

SEQ ID NO:849: (Length of Sequence = 318 Nucleotides)

GGAATTTTNC TAGTGAGGAG TGGAGGAAGG GGGCTGGTG GAGGAGTAGC AGCCTTTNCA AAGGCCCTGA GGCAGGAATA
CCTGGGAAGT GGGGGCTGC TTGINTAAGA TGAGGCTAAA GAGGAAGGCG AGGCTTTACT TAGGAGGAAT GGAAGCCAC
TGAGTGTAA AATTAAAGC AGTNGGGCT GGGCACAGTG GCTTACACCT ATAATCCAG TACTTTGGGA GGCAAGGTG
GNTGNTCAC CTGAGGTCAA NGAGTTTNG ACCAGCCTNG CCCAACATTG GGCTCTACTA AAAGTACAAA AATTAGCT

SEQ ID NO:850: (Length of Sequence = 320 Nucleotides)

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ATGTCCTGCCA ACTCAGGAGC AGGGCAGGAA TCAAACCTTTT TGGAGTTGCT ATCAAGTINCT TGATTTTINCA ATCCCAACCG
TCCGCAGAAC ACTAGATGTG TGNATGINTG CTGTGTGTG CATTGTGTGT AAAGAGGGGG TTGAGAAGTG GAAGGCAGAG
NCAGGAGTNG GCATCTACCA NGGCATACAT NAAAGACCCT TACACCAACA CTGCCCTTCC CAGNAATGTG AGTGTATATCT
GGTTTCTTAA AACCTTGGGC TGCAGTCCAG ATAGTCATGG TTAGANCAGA TGGTTGAGGA AAGGTTCAAG GCAGTAGGAT

SEQ ID NO:851: (Length of Sequence = 170 Nucleotides)

CATCCAAGAT ACCAAGATAT ATGAGGGAAC ATTTNNTTTA ATAAAAACA CAAAACCACA AATCCAAGAG GCTCAGNTAA
CCCCAAGTAA AATATATACT AAAATACAAG NAAAAGGGAA AAAATGCATG NACACACACA TATAGGCATA TCATATTCAA
ACAGTTGTTA

SEQ ID NO:852: (Length of Sequence = 256 Nucleotides)

CAAAGTACAC ANGTGTATTT ATTACATTTT GCAAGCACTC TGTCTACAT TTCAAAAACG CCACNTCAA GCTGTTGGCA
CATTTATGTA CAAAACAGAT TAATTGTAAT GCCTGTACA AAGCACTCTG TGAAAATACA AACTCTAATA CCAGAAATAA
AAGCCAAAAG TGTCAACATC ATTACATAAG TNGAAAAGTC AGTTTNGAA ATTATCACA ACTGTTATGN CACGGAAGTG
AAATACTATA ATATAG

SEQ ID NO:853: (Length of Sequence = 281 Nucleotides)

GTATGINTGT TCTCTCTCT TGTCTCTCT AGGATATTIN ATCCTTGACT TTAGGGAGTT TGATTATNAA ATGCCTTGAG
GTGATATTTT TNGGGTTAAA TGGGCTTGGN GTTCTCTAAC ATTCTTATAC TTAGATATTG ATATCTCCTT CTAGGTTTGG
GAAGATCTCC GTTGTATTTC TTTTGAATAA GCTTCTTACC CCATCTCTTT CTTTATCTCC TCTTTACAGC AAATAAAGTT
TTAGANITGC CATTTTNAGG CTATTTTCTA GACCTGTAG G

SEQ ID NO:854: (Length of Sequence = 255 Nucleotides)

TCTGTCCAGG ATTATTACCA GCTAAACCAN GTAATGGAGG TCTATGCCTG ATGAAGAACA CCTGTAAAAG CTGGAATATG
TGGCTGTCTT CTCAAATGGG CAGATACCAG CACAANGATA CAAGGATTGT AAAGACTCAG AATCATGTTA CTTCCAGAAG
AAACTANATA AGNTCCAACA ATGAACACAA NATAATANAA CTNAAGGANA TTTGGANAAC ANTGCATAAA CAAAACAAGT
TTAATGAATG ATTAG

SEQ ID NO:855: (Length of Sequence = 333 Nucleotides)

ATAGCTGTGG TGGTAACCCA CCAGAGTGAG CATGCTINCT TCINAGGATA GACGTTGGGT AGTGGGATTG GGGAGAGGCA
GGACAGAGGC TTCCGTGTG TCTCTCTAAT TCATTGTTTC TTAAAAAGGA TTTGGGCTTA CAAGTTTCAA ATACTAAGAT
TTNATAAGT CACATGGATT TTAAAAAATC ACTCTATTGT ATGTTTGAAA CATTCATAA TTAAATAAA AGGATTGGTA
TTATATATGT NCTTGAGTTG CTATAATGTT TTACGGTTTT CCTTTGCTTC ACTTTTGAAT TNINCGAGGA TCTCCTGGGG
GAAGNITCAG TCG

SEQ ID NO:856: (Length of Sequence = 230 Nucleotides)

TTNAGACAA AGTCTTGCTC TGTCACCCAG GCTGGAGTGC AGTGGGCGAA TCTCGACTCA CTGCAACCTC CACCINCTGG
GTTCAGCNA TTCTCTGCC TCANCCACCC AAGTAGCTGG GACTACAGGC ACGTGGCACC ATGCCGTACT AATTTTTTGT
ATTTTTTTTA GTAAAGACGG GGTTCACCG TGTTAGCCAG GATGGTCTCG ATCTCCTGAC CTCATGATCT

SEQ ID NO:857: (Length of Sequence = 334 Nucleotides)

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AAAAACAATT AGTAAAAATT ATGCATTAAG GAATTATTTA CTAGACTTTC TGGAGTAAA AAATAAGTCA GCTGGTTTTC
 CCTTIGANTT CCTATATAIT AAGGCAGAAT TCTCTATACT GTCCACCAAA ATCATAGTTA CAACGTGTTA CTTGAAATGA
 TTTATATACT GCATTGACCT GGCATGTTAA TATTTCCTA TAAATATCAC CACTTATCCC CATGCCCTAA AGCAGTTTTT
 TTAACCCAT TCTTCTTGG AGAATAATTA TAATACCTTA AATACAGAAC TTTGGGTTTC TGATCTTGCC ATAGCCATGT
 AGCACAGCCA CTGA

SEQ ID NO:858: (Length of Sequence = 301 Nucleotides)

GGAGAAACGC CTAATGTAGA TGATGGGTG ATGGGTGCAG CAAACCACCA TGGCACGTGT ATACCTATGT AACAAACCTG
 CACGCTCTGC ACATGTATCC CAGAACITAA AGCATAATAA TAAAAANTA AGAAAATGGA AATTGATTTT AAAAATTTTT
 ACAATGTGCA TCAAAGACA ACATTAAGAA AATTAACAGA NTGGAAGAAA ACATTGCAA ATAATTTATC TGATGAGGGT
 TTAATATCCA GAAAATATAA AGANCTCCTA CANCTCAACA GCAANAAAAG ACAACCCNAC T

SEQ ID NO:859: (Length of Sequence = 332 Nucleotides)

TGTCTCACC CATAGAGCTA TCAGAGGGTG CTGCONATTG GCAGACCTT TACATTTCCC TTTAATAAAT CACTTCCCTG
 CCAAGATCTC TGTCAAGGTT TGAGAAGTCA GAGCAITTAAG TTATTINCAA TAAATGGTAT GTACATGANC ATCAGCAAGC
 TCCAAGAAAT GACTCGAGGG CCTTTNACTA CTCAGAGAAT AAAGCAAAA TGCCAGGTTT TCAGTGCTTG TCCTTTGTGC
 CAGGGATTTG GACGTGTTTT TTGTTAAGIN CCAGCGTTGA GCTATGTTCC AGAAGATGGA GCCTTCCAGA AATTAATGT
 AGTGCTTGAA GG

SEQ ID NO:860: (Length of Sequence = 233 Nucleotides)

AAACGNTATG TGATTTTAGC ATTACAACAG TAATTCAGAA ATATCTCANN TGTTACATTG ATGTCATCAN TATTACAAAA
 AAGGAAAAAA AAGTGACAGG CAACAGTGAA GAGCACCAGA GACCCAGCGC ACACCTAAAG TAGACCATGC TTCTTTCCTT
 CCACTGCCAG GTTATCGTCC CGGGAAGCCC CCCACCCCT CGCTTCCTC CTCCGCTTTC CCTAAAAAA NNG

SEQ ID NO:861: (Length of Sequence = 327 Nucleotides)

GGGCAGGTGT CAGCGCCCGT TTCACCGCCA CGTCGCGGAC ATGGTGATTT CAGAAAGTAT GGATATACTC TTCAGAATAA
 GAGGAGGCCT TGATTTGGCT TTTCAGCTAG CTACTCTTAA TGAAATTTIN CTCAAGAAGG CACTGAAACA TGINTTGAGT
 GACCTGTCAA CTAAGCTGTC TTCAAACGCC CTGTGTGTTCA GAATTTNCCA CAGTTCAGTG TATATATGGC CTAGCAGTGA
 CATAAACACC ATTCTGGAG AACTGACTGA TGCTTCTGCT TGTAAAGAACA TACTGCGCTT TATTCAATTT GAGCCAGAAG
 AAGATAT

SEQ ID NO:862: (Length of Sequence = 378 Nucleotides)

AATCAGGTCC ACATTGTTGT CTGGATGCT GAGTTTGCTG AGGGTTTCCA AGACCACTCT CTGCGGGGAA AGGACGGCAT
 TGGGGCCCGAG GGTGGAAGG GGGTCTGGG CTTCANCTGA AGGGCAAACT GCCCAGTGTA GGAGTCCGTC CAGGACAGGC
 AGGCAAATNC TCTCGGGTA TGGAGATAGG TCCAACGTCC CCGAGATGTT GGCAGTGTA ACCAAGGTGT TTTCCCGGAG
 CATCTCCAAG CAGTCCCACC ACCACTCCAC TTTTTCGAG CTCACCCCTT GGGTCCGTT CTNCTCCTT TTCATAAGTT
 AGTGGTGCT GCTTCCCGT TCTGGTGCT TTGTTGGTGC AGCAAGGATC AAGCTTTG

SEQ ID NO:863: (Length of Sequence = 374 Nucleotides)

TCAAATTAAT GGTTTTATTT CCATCTGTAA CACTAGCAGA GGAGTCCAAA GCAGACTGAT ATCCATGGAT ATAGTTTAAA
 TGTAACAAAG AAAGAGTTGA ACTATGTACA TTGAAAAAG GAAAGACATT TTNCATACC AACCTTCCC TAGTTCGCAG
 TTTCTGAATA GTAGAAACAA AACACATTTT TAAATCTTTC TATCAATTTA ATTTAGGACG AAGTAACACA ACTTTTATAA

TTAACCACTG AAGTNGTCIT TAAGGACAAA ACTTAAATTT TAAATGGGT GTTACCATAT TTINATGAGTG GACTGACTCC
AAGGTGCGCT TGCTCCAAGN NTGGGCATCG TGACATTGCC GTGATGCCCA GAGG

SEQ ID NO:864: (Length of Sequence = 223 Nucleotides)

AAGGGGATAG AGCAGACACT CCGCAGGTINT CTTGAGATTA TCATCCGCTG AGGGTAGAGC TGAGGGTGGA AGGGGAGTNA
GCAGACACTC GGAAGGTGTC TTINAGGCTCA GGGAGTTATC AATTATAGAA TGTGTGTGAG TTGGAGGAGG TGGCTGGTGG
CCCATCCTGT TTTTAAAGT TTCANCTGTG AGGTAGGGCC AGTAGGGCAA TCCTGAAGAA TGG

SEQ ID NO:865: (Length of Sequence = 228 Nucleotides)

GAACCCGGGA GGCAGAGGTT GCAGTGAGCA GAGATCACAC CACTGCACTC CAGCCTGGGC AACANAGCAA GACTCOGTCT
CANAAATTTN CCAAATCTG ACGGAAAGAA AAGAAACAAA TGGTTCAGAT GGGACGGAGG GTGGGGGAGG GGGGGAGGGT
GAGTAGGAAC CAGGAGGGCT GCCTGGGGTG GGGGAATAAN TTAAAAAAG GAACGAGTTA ACAACAGC

SEQ ID NO:866: (Length of Sequence = 328 Nucleotides)

GCACCACGTC AGAGAGGGCC CAGGCCACTG AGCCCGGGAG GAGACCCAGC CGGCCAGCCA GATGTGTGCC TGANTGCCAC
AGACTTCAAG CAGTTTACAA ACGAACTCA CTGTTAAAAG CTGTTAAATC TCATTAAAC AGTAGACGAG TGCTTTAGAT
TCTCTGAATA TCAAATAATA TATACAGATA GACACTGAGA CATGACAGTC TAATCTAAG CATCTTTACA GATGCATTIN
CTTGAAAAGT TAGTCTTCTT TTTAACTCTG AATCAGTGAT AAAATTGTTA ATTTGCAAAA GAGTACAGTT TTAAGCAAGA
NTAGATG

SEQ ID NO:867: (Length of Sequence = 361 Nucleotides)

GTTCATGGC ATGINAAAT TATGTGAAAT TCAAATTTTA GTGTCCCGAG TTCTACTGGA ACGCAGCCCC TATGTGGTTC
ATGINTTGCC TCCAGCTCCT TTCACTGTC AGCAAAGCAG GGAGTGTAAC GTACACCCCA CGGCCACGGG GCCTAAATA
TTTCTATCA GACCTTTAGA GAAAAATATG CCGACCTCGG ATGTGACTGA GGGTGGGGAC TTGGGTGAAT GCGGGCCAGG
AGTGACATCA AGGGTTTGAA GCAGACCTC TGTCCAGGAG GGAGCGGAGG CAGAGCAGGG ACAGTAGINA GGAGGCCATC
TGTGGTGACT TAGGCAAGGT GAGGAGGATG TAGGAGGCAA G

SEQ ID NO:868: (Length of Sequence = 364 Nucleotides)

AAAGCAGCCT TCAGGCTACT CTCTCTTGGN TCCITGCTCT GGGGAAGAAC ACTCAAGCAG CTTTAGAAAA AGTCCACGTG
GCAAGGAAT GTGGTCTTTT GCCAACAGCC ATGTGAGTNA TCCATCTTAA GAGTGGNTCC TCCAGCCCCA GTAAAGTGT
CAAATGACAG CAGCCCTGGC TAACATATTG ACTGCACTT CATCAGGGAA CTTGAGCCAG AAAAAGTCAG CTAACCTGCT
CCTAAACTTC TGACCCACAG AAATGGTGAG ATAATGAATG CTGTGTTTAA GCTGCTAAGN TCTGGAATAA TTTGTATTTC
AGCAGTAGNA TAACTAATAC AANGCCACC AAGNATCATT TCCC

SEQ ID NO:869: (Length of Sequence = 383 Nucleotides)

AGCGACAGAC AAGTGAGCAT CACTACCAGA GCTCTGCCTC CTGTGAGATC AGTAGCGACT TTAGATTGTC ATAGGACCAT
GAACCTGTG CATGCGAGGG ATGTGGGTG CACTCTCTT ATGAGAATCT AATGCCTGAT GATCTGAGGT GGAACAGTTT
CATCTGAAG CCATCCCTGT GCCCCTACCT GTGGAAAAAT TGTATTCCAT GAAACAGTT TTTGGGGCCA AAAAGATTGA
GGACCGCTGC TCTATAAGAA ACTATTACTG AAATAAGGTA TAAAGTCTT ATCTTACTTA TATTTATATC CTCTATGGTG
TCCACACACA AGGTGCTTTT TACACTAAG TTGTTAACT AAAATATTNC TTTAACTTT AAT

SEQ ID NO:870: (Length of Sequence = 409 Nucleotides)

CAGCTTTGCA AATCAAATAG AATTCATTTT GCCTCCNCTN ATCTTACAAC TATTCTCTGG AGTAGGCAGG CTGGTTGAAC
TTCAAGAGAA GAGGCGTTCC TGAGAGCCTC CTGGGTGAGC TTGCACACCT GGGGGCCAGA TGINCTTTGC CCTCCTTGCA
AAGCCTCTCT AGTCTGGTGC CCAGAGAATA CAGCTTCAGC AGCAGCTCAC TTTGCTTTTN AGTTTAGATG AGAAAAACA
GCAAAATAGT CCATCAAGGA CAAATCTTTC CCAATGGATT TNCCTTTGCA AGGANGTTCA CCTTTGNNCC TCAAGCATCA
TCTTTAAGTT GTGAATGCCT GATGGGAGGT CCAGGTTGGN CTGTGGGAGG AGCTNGGGGT GGNITCCAAA ACCACCTGGG
GACCACTGG

SEQ ID NO:871: (Length of Sequence = 290 Nucleotides)

TCTTTGCATT GATAGATTAG TTATTTATGC CAGTNGTCTC TGCTGGCTT GTTTTGGTTT TNATTGCATT TGTTTGCTAG
AGATTGCTTT TAGTTTINCA ATTTCTTTCT CTGTACACCT GCCCCCTCCC CACCCACCA CTGGGTACT ACCTCCTTTT
TGGCACTACA TGATGCCITA AGCCAGGNT TGCCTAAGCT TTCATAACAG ATCCAGCAC TGCTCATCCC CAGTGGTGA
GGTNCATAAT GGGATAACCT GATAGTGTTG GAAGGCTGGC TGGGGTGT

SEQ ID NO:872: (Length of Sequence = 313 Nucleotides)

AAAACAAAAC AAATTTAAAA GCACTCAAAA ATAACCTCAA AAAGAGACTA GTGAGTGTCC CTTAAGGAAA GCCCTTCTG
CAGATCCCA CAGAACTCGG CCCAGGCACT TAACCTCCAT CTCAGCTCTG GTACAGCTCA CTGGGTACAG TGTGTACCAA
ACTCTTATGC CTGGNCTGCT GATAAATTCT ATTTATCTCT GAACCTCAAT TTATTCAAAT CTAGTTATGA TATATCATAG
TGCTTGTAAT TGTGTAAAA TATAGANGTA ACATACAGCA TGTGTCTACA CENITAATAA ACTGGTGCTA ATT

SEQ ID NO:873: (Length of Sequence = 300 Nucleotides)

TAGTAAACAA GTATTACTTC AACTGATACA ATGGCTACAT GACATCAAAG TACTATAAT NATCAAACT ATCGTACAGA
AAAATTACAA ATTGCTTGCA AAATACATTA TACTGCTACC ATTAAGAAAA AAGTCTTTT NGTTTTCTT TCTTTCTTTT
TTTTTTTTTT TTTTCCAGA AAAGTATCT TNCATATAG AAAATCCTAC ATGTTACCCT GCATGTGGCT AGGNTATATC
ATAACGGAGT TTGTACTGAG TCCTCTGAT TTGCTGGATG AAGGGCTGAA AAATATATTA

SEQ ID NO:874: (Length of Sequence = 364 Nucleotides)

GAGTCATTGA TGCTGAGAGA TTGTAAGAA TATACTGACA GCATCCTTGT AGCTGCATCA CAGTAAATCG GACTTCTGAA
TCAAGCAGCC CAGCCTAGCA GCTGATAAGA GTGAATGTAG GTGAGAAGCA TTACCTTATT CCTGTAACAA GAGAAGTGT
TTGTGATAAG TGAACTAGG AATGTAGAAG AAGAAATATC CTATGGCTAT TATAAAGAN GAAGGACTTG CCGANTGAC
TTGGTGGTGC ACCAGAAAAT AACTTTCAGA AGAATGCTTT CTGTTAAGCT GCTGCATTGT TCTGGAGGA AATGTTATT
CTAATGCATG TTATTTCTTC AAAAGATAGG ATAACAAAGA ATTG

SEQ ID NO:875: (Length of Sequence = 341 Nucleotides)

ATCAGTCCAA TGCAGATTAG TATCACTTTG CTCATAAAG AGAGTATAAA GGTCTTGAA GTTTTGGAAA GGAGCGGCTN
AGCTGACTGT TAAGGAAGCT ATCTTTTGT TACAAGAAAT TTATACTTT CCTTCTAAA TTTCACAAAC AGAATATTAT
TAGAGACAAC AGAATACATT TACAAAAATG GCATCAGAAA TAATTGANIA CATTGTGTAC AATATCTNCT ATTAATGAAA
TAAATGTATA TTTNATATGA TATTTGGTCT TTATGGGAAA ANTAATATAA TINCCAATAT TCTAAGGNTG ANCAAAGNG
GTTTACAAAT AGCATGCAAG G

SEQ ID NO:876: (Length of Sequence = 327 Nucleotides)

GTTCANCTT GTGGGTCAAC TTCTAATATT TGATGGTGGC TACACTGTGA CAAGAAAGGT TTTNAGCTT GTTGGGTCA
GTGGATGGGC ACAAGGGCAC CCAGTGGTGG TGCCCGGNCC AGGGAGGAGA ATACATTGTA GAATATAAGG TTTGGAAGTC
AAATTATAGT AGAATGTGTA TCTAAATAGT GACTGCTTTC CCATTTTATT CAAACCTGAC AAGTCTATCT CTAAGAGCCG

CCAGATTTC ATGTGTGCAG TATTATAAGT TATCATGGAA CTATATGGTG GACGCAGACC TTGAGAACAA CCTAAATTAT
GGGGAGA

SEQ ID NO:877: (Length of Sequence = 404 Nucleotides)

ATTTGGCTCC TGAATGTTGC AGAAACTGG TTTTGTACAC TGGGGAAGGA GAGAGTGAAG ACCCTCCAGT TGGTTCTCA
GTCAGTCCG TTCTTGGTGT CGCTTCTTG CAATTTTTT CCTCCCCTGG CCTTCCTGT GAGGGTTAAA AGGGCCATCT
CCAAGCCAGG TGGAGCCCCA ATCCCATGA CCAAGAGGGC AAGGTATGGG GTCACCTTCT CATGGAAGCC CTCTTCTTAA
AGGAGCCCAA AGGGGACACC TGCAGAGGGC GGGCTGTGAT CTGTGTGTGA ACTTCAACAA AATCTCAGGT TAGTATTTCT
CCAATTTAG TTGAACCACG ATGTGGTATA CACTACAAA TGCAGATTCT GGTGCCCTC TCCAAGAGTC GGCCTCAGTT
AAAA

SEQ ID NO:878: (Length of Sequence = 340 Nucleotides)

TGTACCGCTG TGCTGTTGTC ACGAACACCT TCAGGGACTG GAGCTGCTTT TATCCTTGA AGAGTATTCC CAGTTGAAGC
TGAAAAGTAC AGCACAGTGC AGCTTTGGTT CATATTCAGT CATCTCAGGA GAACTTCAGA AGAGCTTGAG TAGGCCAAAT
NTTGAAGTTA AGTTTTCCAA TAATGTGACT TCTTAAAAGT TTTATTAAAG GGGAGGGGCA AATATTGGCA ATTAGTTGGC
AGTGGCCTGT TACGGTTGGG ATTGGTGGG TGGGTTAGG TAATTGTTA GTTTATGNTT NGCAGATAAA CTCATGCCAG
AGAACTTTAA AGTCTTAGGA

SEQ ID NO:879: (Length of Sequence = 372 Nucleotides)

GAAAAGATAA TGAAGGAATA ATGCAAAGCT GAAGGCTGTG CCAGATGTAA GAAGTGATTA TGAAGGATAA AAGAAAAGGG
CTTTCCAAGC AGGGAAGAGG CATCAGAGAG AAAACCAAT GTTGAGCCAG TATCTGTCA CAGGGACAAT TGTCTTTTNC
CTTTAATGCC CAGTAAGGGT CTTCTCAGGT TCCATTAAAC ATGCAGAATC ACAAGACCCC CCCAAAGTTA CCATGGTGCC
AACCGACTCA AAACAATACA GACAAGAAGC TCAGCTCATC AGGAAGGCTG CAGCAGGCAT ATGGGAACCA TCTTGCTCCA
CAAAGGACAG CTNAGATGGC AAAGATCCCT ACAAGGGTCC ATATCCACGG GG

SEQ ID NO:880: (Length of Sequence = 405 Nucleotides)

GAGCTAGGCA CCAGGCATTG TGTGAGGCCC CAGGAGTTTA AGAAATGAAT TAAATATTCT CCCCTGCCCT CTTTGAAGTG
ACTCTAACGA GGAGACTTAA GANTTATTTT GTAATCTCTA GTTATATTIN CTGAATTTCA GAGCTTAAAT ATTATACTTC
AACATGAGTC ACACCTTTAT TTATATGTTG GTTTGTCTCA GCTGTGTGT GGGTTGGTGG AAGGAGACCA CACATACATA
CACACAGAGT ACATACATGC TGTGATGTT ACACACATAC TCACACCCCA CAAAGTGAAG CTCCATGCTC ATTTTGTTTA
ACAAAGACTA GAGAGGCCIT GCAGACAACA GCTACCTGGA GCAGGAACAA GTGAAGCATG TTTCTGAACC ATTTCTCAAG
TCACA

SEQ ID NO:881: (Length of Sequence = 336 Nucleotides)

GTCTTINCAG TCAAAAGTCC TTGAAGCTGG GACCTTTGA AAGTCTGTCA GTTACATGTT GTTGGTAGTG GCTTGTTTTG
ACCGTTTCAA AAAAGGAAGA AAAAACCCT TAAATCATTT TTCTTTCTC TTTTCTACTG CAAAGGCCGA CGAGATTGAA
ATGATCATGA CGGACCTTGA AAGGGCAAAC CAGAGGGCAG AGGTGGCTCA GAGAGAGGCG GAGACCTTAA GGGACAGCT
CTCATCGGCC AATCACTCCC TCCAGCTGGC CTCACAGATC CAGAAAGGCA CCAGACGTGG AGCAGGCCAT AGAGGTGCTG
ACCGCTCCA GCCTAG

SEQ ID NO:882: (Length of Sequence = 369 Nucleotides)

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TGCCATTAGC AACACTGTTC AGATGAGATA ATTAAGAAAA AAAGCCAATT GAATGATTGA GTGAATGANT GATTGAAAAT
 CTTTCCGAAG TTATAATAAT AATTGTGATT ATTGGGGTCA AAGCAAAACC ATTTTAGTCT AAAAGATTGT ACACATATACC
 AACTTTTACC CAATTGGGAA TGAAAAATTA CATTTCCAAA CCATGTAGAA ATTCTGANCT CTTTGAAATA TTTCCTTTTG
 TGGGAAAGAA CCAGAAATTC TTTGTACATAT GTACCCATTT ATCTTATTIN AGTTACCCAA CCAAAAGATA AAATAATATT
 CTCAAAGAGA TAATTGACTG GAGGAGTTA AAGTGTTTAT AAATATTAG

SEQ ID NO:883: (Length of Sequence = 369 Nucleotides)

CTGCCATAAG AATATCAGCC TGGGGGCAGT CCAGACGCAG CCCTTTGTCA TCCTTTCTGT TTGCCTAGTC TCAGCAGACT
 GTGATCACA GGCATTGTCT GTGGGATTTT NCTTTCCCT TCTTGATCT CTCTGTGGT TCTAGGTTGT TTGGTTGTTC
 ATTGTTATGG TGGCTTTTNA TTTTAACGCC CCTTGAGCCC CATGATGGCT GGTGTCAACC TGTTCCTTTA CACTGTTGGG
 CCAGGTGCTG CTGTCTTC TTAGGGCATC ATCAATTGCA AATATTTCT TTTGCTCCCT TTATGAAGAT GTTCTTATAC
 CTTGCTTTT CCATATTTT TNIGGGCCAA GCAATGCCAT CTNCITTTA

SEQ ID NO:884: (Length of Sequence = 327 Nucleotides)

AGTTCATCTT TTCCAGAGG GGTCTGGGTG CCTTTAAAGG GGTGCAGGCC GAAGAAGATG GTGGCTTGGG GAAACTGGAG
 CTGAACTTGG ATTCAAGACT CTGAGGCACC GGGATGGGA TGGGAATAGG GACTGGCACA GGCAAGGGGA CGATTACAGG
 ATACGGCACC AAGAGGGTGG CTGGTGGGAC CAGGGGGGAC AAGGGGGAGC TAAAAGGCTG TGGGGGCACA GGGGCATAGC
 CAGGAGGAGG CTGACAGGGT GGGGGCCCGA GAGTGCCCTG GGAGGGAAAC AAATCTCTGA GCACAGCTTC AAATGGCAAA
 GTGGGCT

SEQ ID NO:885: (Length of Sequence = 380 Nucleotides)

CCAAAAGCTT ATCCACCATG ATCAAGTGGG CTTATCCCT GGGATGCAAG GCTGGTTCAA TATATGCAAA TCAATAAATG
 TAATCCAGCA TATAACAGA ACCAAAGACA AAAACCACAT GATTATCTCA CTAGATGCAG AAAAGGCCTT TGACAAAATT
 CAACAACCT TCATGCTAAA AACTCTCAAT AAATTAGGTA TTGATGGGAT GTATCTCAAA ATAATAAGAN CTATCTATGA
 CAAACCCACA GCCAATATCA TACTGAATGG GCAAAAAC TGAGCAAGG ACAGGGATGC
 CCTCTCTCAC CACTCTATT CAACATAGGT GTTGGGAAG TTCTGGGCA GGGGCAATTT

SEQ ID NO:886: (Length of Sequence = 400 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTAATCCAGA AGTCCTTCT GGGTGGAAAG GAATGAGTGT TTCANACTTA
 GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCTCATTTG CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT
 GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCACGTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTTG
 ACTCTGCAGT AGCAAAAGCA TTAGAACATC ACAGAAGTGA AATACAGGCT GAACAGGACA GAAAGATAGA AGAAGTCAGA
 GATGCCATGG GAAAATGGAA ATGAGGAACC CAGCTTCGCC GACAGNAGG TTGCCACAC TGATTCATT TCGGAGATGT

SEQ ID NO:887: (Length of Sequence = 363 Nucleotides)

TAAATAAAT GCTCTGGATG GGAGAAATGT GGAAGTTACT TTGGAAGTGA ATAATAAGTA AAGGCTGAAA GAGTACTGAT
 ATACATGCTA AATAAAACCA ATATTTCCCT GAATGANCTA TTCAAAGCAA TTCTGGTGGG TGTAGACAG GACATAGAGA
 CCTGGAGAAG AAGCTCCCAT TTTTATAAAG AACACAAACA ATCATGTATA GAATGTTGGT AGAAATATGA ATGGTGAAGG
 TCAATGTAAT GAAGTCTTAG ATGGGAATAA GANAGGTTAT TAGACAAGGG AGAAAAGGTA ATCCTTGTTA TAAAGTGGCA
 AAGGAAGTTG GCCTGAATTG TATTCATGTA CTAGTGCTTT CCT

SEQ ID NO:888: (Length of Sequence = 318 Nucleotides)

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ATCTTGCATG ATTAATACTA TTGGCCCTGIN CCCTTTATCC TCAGCTGGTT GTACAATTCT TGAATGCTTT CTCTCTCCCC
TGAGGATGCT ATAGATAATTG TCCTACTGIN ATCTGAAATN AGTCGTTTTG GAGAAGTTTC TCCATCCAGA TACCTATAGA
GTCGTCTTT TTTTTTTTTT TTTTTTTTTT ATATGCAAAC NCTCGCTGTA TTATTCAGGC TGATCTGAAT CTCCTGGNCT
TTAGTGTGT GACAGCTTTG GCCTCTTAAA ACTGCAGNT TACAGGCATG AGCCACAGTG CCTGGCCATC AAGTAGCA

SEQ ID NO:889: (Length of Sequence = 349 Nucleotides)

ACAGAAATCT ACGTAGACTT CTNCCAAATG CCACATGAGA GCAGTGGCAG AATACAGAGA GACCGGCGAC CACAGCAAGG
AACTGTAACG GCCAACAGTC CTCAGGCATG CAGGCCTGGG CCAACAGCAC AACGCAGAGT CGCTTCTTCT CAGTCCAGCA
ATTAAATGA CCATGGCAGC CAGGGTTTCA TTAGGTTACT TTCAAAAACC ACCTTTGCTG GAAAAAATGT TTGGTAGTTT
AATCTGCATA TACGGACAGT CATGCACCAC ATAATGATGT TTAGGTCAAC GATGGACCAC ATATTCAATG GGTAGTCCCC
TAAGGTTTAT AACCAGCATA TTTTTACT

SEQ ID NO:890: (Length of Sequence = 341 Nucleotides)

GINGTAGGGG TTGCTAGGTA GGGCTAGTAG GTAGGGTTAG TAGGTAGGGC TAGTAGGTAG GGCTAGTAGG TAGGGTTCGT
AGGTAGGGTT CGTAGGTAGG GTTAGTAGGT AGGGTTCTGTA GGTAGGGTTA GTAGGTAGGG TTGCTAGGTA GGGCTAGTAG
GTAGGGCTAG TAGGTAGGGC TAGTAGGTAG GGTTAGTAGT TAGNGCTAGT AGGTAGGGCT AGTAGGTAGG GCTAGTAGGT
AGGGTTCTGTA GGTAGGTTTC GTAGGTAGGG TTAGTAGGCG GTCINTCCTT CTCCACCCT GGNINCTTGT AAAACNTTAT
TTTACAAGCA ATAGGAATTT G

SEQ ID NO:891: (Length of Sequence = 344 Nucleotides)

GACCTGGCTG CGCACCAGGA CCGNTGGAG CAGATCGCCG CCATTGCCCC GGAGCTCAAC GAGCTGGATT ACTACGACTC
CCACAATGTC AACACCCGGT GCCAGAAGAT CTGTGACCAG TGGGACGCCC TCGGCTCTCT GACACATAGT CGCAGGGAAG
CCCTGGAGAA AACAGAGAAG CAGCTGGAGG CCATCGACCA GCTGCACCTG GAATACGCCA AGCGCGCGGC CCCCTTCAAC
AACTGGATGG AGAGCGCCAT NGAGGACCTC CAGGACATGT TCATCGTCCA TACCATCGAG GAGATTGAGG GCCTGATTCT
CAGCCCATGA CCAGTTCAAG TCCA

SEQ ID NO:892: (Length of Sequence = 367 Nucleotides)

CTGGGCAACA TGGTGAACCC CATCTCTGCT AAAATACAAA AATTAGCTGG GTGTGGTAGT GCCTGCCTGT AATCCAGCT
ACTCGGGAGG CTGAGGCAGG AGAATTGCTT GAACCTAGGA GGTGAGGTGG AGGTTGCAGT GAGCCAAGAT AAAAAGAGTG
AGACTCCGTC AAAAAAAAAA AAAAAAATA TATATATATA TATATATATA TATATTNGN CTCCAATCCC ATCTAGGTTG
CTGCAAATGC CATTTATTCA TTCTTCTTTA TGGCTGAGTA GTTTTCCACT GTGTATGTAT ACCACAGTTT ATCTTCTTGT
TGATTGATGG GCGTTTGGGC TGGTTCCACA TTGTTGCCAG TTGCAA

SEQ ID NO:893: (Length of Sequence = 220 Nucleotides)

GCAAAATATT TATCCAAGT TAGTTATTTT ATGCAGTAGT TTCCCCCTCG AGACTTGIGA TAACCAATC TTTTAAATCT
GTAAATAATG TTATCAAAAT AATCTTAATC TTTGAAATCT CACAAAAT TATATTTTAC AATCCACCCT GAATATCAAG
GCTGCAAGAN TAACACAACA TTCTTATAT CCAAATATIT TACAGCTGTA CCCAAAAGG

SEQ ID NO:894: (Length of Sequence = 313 Nucleotides)

GGGATTGGGA TTGTTTGGCT CTGAGGCTGT TAAGTCTGGA CTGATGCTGG AAACATAAT CAATGTTTAA CAGGGTTGAC
TGTCATTAAAT GATGTGCCA GCTGTGGGTA CAGATGCTTT GCACATTACT ACCCTCTATT CTCACAATCT TCCATGGGGG

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ATGTATTAGA ATCCCTTTT ATAAAGGATA AAGGTGAGGG TCAGAGAGAC TAGGAAGCCT GTNCAGGGTG ACACAATACA
AAGTGCATA AATTGGGTTT GACTCAGCC ACTCTGCTTA TTAACATCAG CAGTATGGTT AATGGGGTGA CCG

SEQ ID NO:895: (Length of Sequence = 304 Nucleotides)

GGTCTAGATT CAGTTATGAA TGTAGGCATT AGTTAAATTT AACAGATGC AGAGTATTAA TTTCTTAAGA CAACAAGTG
ATTTCTGTAA GTTTGAGCCC TATGTGGAAA GCATTGTGGA ATCTTAACCT TTTTGTACAC ACTCTGTGG GACGTATCAT
ATAAATGTCA GCACTAAGTA ATGCTTGT TGTGGCTGAA TATTTTNCGT AGATGTTTT GAAGTGGACA TGACTTACGT
GCATTTAAAT ATATATTGCC ATCCCTTAGT TTGTAATTAA GGATTTNGGA ATATGGGTTG TGGG

SEQ ID NO:896: (Length of Sequence = 337 Nucleotides)

GCAAAGTATT TCATCATATG CATGTACTGT ACCTTATTTA GCCAGCCCCA TTTTGTGTTGG CTTGTGGAGA ATTACAATAG
CTGTTTTGAC TGTGTATCA CATGCCAGGC ACTGTACTGT GTATTATCTC ATGTAATTCT CATAGTTACT GCATGGTGTA
GGTATTTTNA TCCCCAGTTT ACAGGTAGAG AACTGAACC CAGAGATGTT AAATAATTIG CCCAAGTTT TTGGCTGATT
ATACTGATGA AGATACTGAT ACTAGCATTC TGTGTCACT TATTTGCCAG ACAGAATTCT TTATTTTTTA ATACATAATA
TCCATTTACT CTTGAGG

SEQ ID NO:897: (Length of Sequence = 316 Nucleotides)

NATCACCTNA GGTCAAGAGT TCNAAACCAG CTTGGCCAAC ATGGCAAAC CCCGINTCTA CTAAAAATAC AAAANTNAGC
CAGGTGTGGT GGTATGTGCC TGTAATTCCA GCTACTCAGG AGGCTGAGGC AGGAGANTCA CTTGAACAGG GAGGTGGAGG
TCGCACTGAG CCGAGGTTC AGTGAGCCGA GATTGCACCA CTGCACTCCA GCCTGGGCGA CTNAGCGAGA CCCTGCCTCA
AATAAGAAA TAAATAANTA AAGTGGGGA GTTAGTGGTT TCTGGTGTAT TCAGAGTTGT GTACCCATCA CCCTGG

SEQ ID NO:898: (Length of Sequence = 200 Nucleotides)

GAGATCTGGG GCTGGGTAT GGATGATGG GGAAGGGCG GTCCCTCTG CCACTGTGAG GGACCAGCCG GCCAACGCCC
ACCCGNAAG GTGTCTAAAA ANTTNAGCTT TTCACCCACC TGCCCTTTC TTCAATCCC ACGCTGTTTC CTTTCAAAGT
TCTGGGAGGA CGAACTCACC GAGGCGAGAA GTNTAACATT

SEQ ID NO:899: (Length of Sequence = 264 Nucleotides)

CTCTGTAAGT TAGCGGTCAT GTTTTCAGCC CCATGCAAAG GCGCAANACN TCAGACAGCG TGGTTCNTIN AACATNAGTG
TGTGGTGCCT CCCAGGAGCA GGGATTINAG CNAGGCTGCT GACACATAAA CACACCCCCA CCTCCAGAAG CAGAGGAGAG
GAGCCAGGG CCAGGGCAGG TAGCTCAGCA AGGACCCAGC ATGCTNCAGG TGGGGCCAGT AAGAGTCACT TCTCCAGCNA
GGTTCAGAGA GGAGAGAGGC AAGA

SEQ ID NO:900: (Length of Sequence = 265 Nucleotides)

GCAAATGGTA AAAAACAAG TCAGCAGAAG AAATTAGAGG AGAGACCAGT TAATAAATGT AGTGATCAA TAAAGCTAAA
AAATACCACT GACAAAAGA ATAATGAAAA TCGAGAGTCT GAAAGAAAG GACAGAGAAC AAGTACATTT CAAATAAATG
GAAAAGATAA TAAACCCNAA ATATATTTGA NAGGTGAATG CTTGAAAGAA ATTTCTGAGA GTAGAGTAGT AAGTGGTAAT
GTTGAACCAA AGGTTAATAA TATAA

SEQ ID NO:901: (Length of Sequence = 381 Nucleotides)

CTTCTGTGCA TATAAAGAG AACAGTCTGG NCACTTGAAA ACAGACACCT TCTGGTTTTT AATGTGTTGG TCAAAGTGGC
GATACAGCAA GGTTCAGG GTGAACACAG TGTCGCACAT GGAACACTTA TATATNATTT TNGGTTCTCC TATCTTGATG

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CCAGGATGCT GTGTGTAGGC GTGGGAATNT GTGCTTGGGG CAGACTTAAA CGCCATTGGA CAAATAGGAC ACTTGTAGAA
 GACTTCACAG TGAGAACCTT GAATNTAAGA CTTACAGACA GCCACATCAG AGTACACAAC CATTGCAAAT GCACCACATC
 GAAAACCAAC TCTCCTCGTG TAGTNCAGAC AGTTCTTTGT GGGGTGGGGT CTNGGAAGGT G

SEQ ID NO:902: (Length of Sequence = 331 Nucleotides)

GGTTGCCAGT GATCTCCTTT CTTATCACCT ATAGACAGCT TGCCACAGG AAAAAAGAAA GCCAAACACA GACAAGCAGT
 ATGAGATACA ATGAGCGCCC TTGGGCCATT AAAATATGAT TGINTGCCCA AGGTGCGCTG GNCTGCAAAC AGCTCTCCAG
 AACCTGCAGC CAGCACAGAC CAAAGTCAGG TTTGTNTCCT CTTCTGTGTA TGAACAAAGG TTGATTCCAT ATCGTGGCTA
 TTGTGAATAG TGGCAGTAAA CATGGCAGTA TTGTATGAAA ATATNACAGA TTAGNCCCTT TAAATATGTG CACTATGGNT
 GATCTATCAA A

SEQ ID NO:903: (Length of Sequence = 389 Nucleotides)

AGCAATACTA AACATAAATG TAAATTGGGC TAAATGCTCC CAATTAAAAG ACACAGAGTG GCAAGCTAGA TAAGGAACCA
 AGAGCCATTG GTATGCTGTC TTCAAGAGAC TCATCTCACA TGCAATGACA CACATAGACT CAAAATAATG AGATGGAGGA
 ACATTTACCA AGCAAATAGA NAACAACAAA AAATATTTCT AATAGATTTC TGCTTTTAAAT AATGAAATAT GTCAAACCTC
 TATAAAAACT ATATGTAGGA AATATAAANG TTTATATATA ATTCAATGTA TGGNTAATAG TAACTGAATA GCTAGTATTG
 AATAACCAAG CTTCTTTTGT TTGTTTGTNA CATTGGNGNA ATTGAACATG CTTAAAGGTA TTGGGAAGG

SEQ ID NO:904: (Length of Sequence = 285 Nucleotides)

AAATCAAGGA CCGGTTAGAT AGATGATGGG CTAGGCAGGT GGGGGAAGAC AGAGCTCACT GCCCINTGGG GTCTCTGTGG
 GGCCAGCCCC TNATGCCCAT GTGGCCACTN ATGCCAGCT TCCCCAACA CCCCANCACA GGCCAGGTC AATATTACAA
 AAGTGAACAA ATGCAACCTG TTTCTGCTTT NACAAATGAC ATGTCTCCAT CCCCAGCCAG CAGGGGTAGG GGAGNCGGT
 TGAAAGTGNC ACTCCGGTTA AAAAGGCAAC AACTTTTATA AAATG

SEQ ID NO:905: (Length of Sequence = 374 Nucleotides)

GAAGCAAAA GTTGAACCTT TTAAAGTGCT GAACACAAAT CCAATTGGA ATGGTCAAG CAGCCGTGAA ATCGCTCTTC
 ATAAAGTGGG CTTAATCTTC TAGTTAAGT TCTTTTGATG GAATGAATTA ATTAATGTGT CAGGTGGCTT ATTTGTGGAT
 GCCATGATTG ATGATGTCA TTTTAAGCTC TTACCTATAG TACAAGTACA TGATGCTACT GAATATTTT TCCACTTGGA
 AACTGTGAGC TGGGTGTGTG CATTAATAACA CACATACANA CANAATCANN AAACACTGCG GACTTTTCAC TCAAGCTGGG
 TCTTTCTTC CCCAGTGGTA AGGGCAAATC CTGGCCTANC TAACCAACAC CCAC

SEQ ID NO:906: (Length of Sequence = 375 Nucleotides)

CTGACTGAAA GGCTCTTICC AGCTCCAACA CATGAAGGTT CCATAATTTT CCCCAAATGT CTGCCGCTCT GAAAACCTCA
 ACTATCTTAA TATTTGTGAC ATTTATGCCT GGTATGGCA ATCTGATGGT AAAAGGAGCC ATATGTAAAT AATAACTGAA
 ACTTTGTCAA AATAATGTTA AGGAAACATA ATTAGCAAAG CAATATATAA TTNCAAGTCC ACTGATTTAG AGAATCAGAA
 GTAACANITA GAATCAGAAA TAACAACAT CTGGCAGGGA TGGAAAAATG AGAGCAGATA TAAAAGGTGT ACCCCAACCC
 CTGACCCAC TGCCCATTTG GGTGTGCACT ATGINTTTCC AATATTAATA TCTTT

SEQ ID NO:907: (Length of Sequence = 390 Nucleotides)

GTGCTGACTT CAGCAGCCCT CTGAAAGGCC CCTTCCATAA GCTGGGAAAG TATGATCATG GTTTCATCAT CCTGTGTGGT
 TATTACTTCA AGGTGACCA ATCTGAAAGC TCTGTGTGAA GAAGGGGACT GAGTGGCTGT GAATGATGAG ACCGTGTGTT
 AAAAGCCAGG CTTAGCCTGA GGTCCGGAAG AAGCAACCTC AATGCTGTGC TTTACCATAG CACCACCTGC AGGTATCCAG

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GAATAGAGAA CCCAGCTGAG CGACTCATGC TTNACCAAAA ATACCCAGAG CAGTGTGTCT CTACCTTTTT AAGCCCATGC
TCACTAGTGG GGAAAACAAT TTTACCCCC TGTATTAAAA TATGGGGATT TCAAGGCAA CAAAAGCATT

SEQ ID NO:908: (Length of Sequence = 207 Nucleotides)

CTGCATACA GGTGGTAAAT TATTACATTA TTTCTNCTC CTGCTACCT GCAGTTGGTT TTATGAGGGG CGTTAGTACA
CTTCCCAAAG GGCTTGCCCG CAGGTINAGA GGTGCACATT GAACTCCCTC ACCAGGCAGA TGGGAAGTGT GGCCATGAGA
GAGAGCTTCA GGGGNCCTNG GNTTATNACA TCGCTGGGCC AGGANAT

SEQ ID NO:909: (Length of Sequence = 339 Nucleotides)

GCAAGAGAAC CTGATATAAT ATCTATAAAT TTTGATTCCC TGGGGTATAA CAAGTAAATA ATTTTTAAAT GGTGCTTAGC
AAGATTGGTT CATGGNAAAT GAAGCAATTA TGGCTTGANT TTATATGTAC AATATTTATT GTCTTAATTT TAATTTAAAA
CGAATGACAT GTCTCTTTTT TTAATAAAAG TCTTCTTTTA AAGATCTTGT AGTTGATGTG ATGAGCTATG CACTGCTAAA
TATTTATCCA CACATAAATA TTTGANAAGG AATATGGNAT AGTCATGGGA TGTAGTTTCA TCTCAGTGCT CCATGGAGGG
AGTGTTTTCA CCTCTCTCT

SEQ ID NO:910: (Length of Sequence = 372 Nucleotides)

CTCAACTGCC ACTCACCTAT CTACCATCCA CTACCCANTN ACCACCCACC ATGACCCACC ATTTGCCATC TACCCATCCA
TCCATTCTAT AAATAATTAG TAAGCACTTA ATGCATGCTA GGTATTATTT TAGGCACCAG TAAGACAATC ATGGGNAAAA
AAGACAGACA ACCCCCGACC CTCCCATCCT CAGGGAGCTC TATTCCAGTG AGAACAATCA ATGTGCTAGA TTGTGAAGGT
CATCAGTGCT TGCTGCCCGT GTAAGACTGA GGTTCACAGG CCCGAGGACC AGNCTGGGCC AGGGCTTCCC AGGGGTCTNC
TATAGGGGA CTCTCAGGAG TCCAGCTGCT GCCCCTTAGC TNAGCACTG GG

SEQ ID NO:911: (Length of Sequence = 377 Nucleotides)

GAACTTCAAA AAAAAAAAAA AAGAGGAGTC ATAATAAATA TTINACTGTC TAGTCAACC AATTTATGAA GCCTGATTAT
CTAGCTNAGC CTCCGGAGAT TGCTACCGGA AATCTCCCA GATGTTCCCC CTCTTAACC AACTNTCCAC TGNTGGCAG
GAAGGCAGCC GGGCATCTGC ATTCCGGAAG CCCAGCTGCT TGGGAAGAGA GAGGGAGCGG CCTGCACGTN ACTCAACAGC
CCTGCCTGCT AACCAATTAA CCAGTTCTCA GTTGGGTCA CGGACCCATG AGCGACCCAG CTCTCTTCCC CTCAGGTTGA
TATTGTGCTC CAAGCTNGGG GATGCCCCCG GGGACTATGT GGAGGGAGAG TTCCTTA

SEQ ID NO:912: (Length of Sequence = 370 Nucleotides)

ACAATCTACT TGCTACAGAA TCAGGATGTA TTNCCTATT TATAATAAAC TACAGAAGGT AGATTTCAAA GGTAATGGCT
GTTATGGAAA CCTACTTGAG GTTGTCTGCT AAAACCAACT CAGTGTGCAA AGCGAAATAC ATTTNCTACT TCAATAGCTC
CTCATACTGC ATCTGTCTGT AGAGTTTATT TCAGTAAAC TGTTTACTAT TTCATGATGA GTAGCTAGAA TTAAAGCAIT
AAGTAGCTTG AGAAAATAAT CTATATAAAT CTTTATATCC TACATATGGC TATAAAAATA AATTTATAAT TTTAAAAATT
GTTTTAAATA AACATTATTT TTTTACCCTA CCAAAGTAAA GGGTATACAG

SEQ ID NO:913: (Length of Sequence = 313 Nucleotides)

GTATCTGGTT GCCACATCCA AGAAGAACGC GTGCNINTCG CTGGTCTTIN CTTTCTCTA TAAGGTGGTG CAGGNTTTTT
CCGAGTACTT CAAGGAGCTG GAGGAGGAGA GCATCCGGGA CAACTTTNTT ATCATCTACG AGCTGCTGGA CGAGCTCATG
GACTTCGGCT ACCCCCAGAC CACCGACAGC AAGATCCTGC AGGAGTACAT CACTCAGGAA GGCCACAAGC TGGAAACAGG
GGCCCCGCGG CCACCAGCCA CCGTNACCAA CGCGGTGTCC TGGNGGTNCG AAGGCATCAA GTATCGGAAG AAT

SEQ ID NO:914: (Length of Sequence = 389 Nucleotides)

TTACAGGGCGC CTGCCACCAT GCCCGGCTAA TTTTNAGTAG AGATGAGGTT TCACCATGTT GGCCAGGCTG GTCTCAAACCT
CCTGACCTCT GGTGATCTGC CCACCTCAGC CTCCCAAAGT GTGGGGATTA CAGGCGTGAG CGACCGTGCC TGGCCTTCTC
CACTGTPTTC ATAGTGAAGA AAGGACACC AAATTTTGAT CTGGTTCAGC TATTCACTAT TCTATCCTGT GTGGTCTTAA
GCAAGTTACA TAACTTGCCT ATATCTCAGT TTACTTAGCT ATAATATAAA TTAAATTGGT CAAATGTTCT CTAAAGTCTT
ACTAGTTACC AGTGTTCAT GGGCCCAACA GCATCTACAT TACCTGAGGA GGCTGGTAGG AAATGCAGG

SEQ ID NO:915: (Length of Sequence = 328 Nucleotides)

CNCCAGCAGA TTTTNATTAG ATGGAAGATA ACAAGCATTa CCNCATAGGT AAGTGGTAAG AAATGGCAAG TACAGCCAAG
CCACAGAGGA GTGAGGACAT TACTGGCTAT GGGAAATGGT ACTTATGAAA TCTAAGGGTT GGGTCTCCTG ATGAACCTTA
ACTACCCAGT AAGCTCTTCT CTTTGGCACT CAATATGACC NCTGCTGGCA TGAAAGGGNC TACAGTAGCT ACTTTCAACT
TGGCCAACAG TTCTTCCAGT TCTGGTCGAG CTTTGAATCG TCCCTTTGAA GTCTTCTTTC AGNTGGTGCT CCTTCAACTT
GACAAGTC

SEQ ID NO:916: (Length of Sequence = 365 Nucleotides)

CAACTTCAAG GTGCTGCAAG AGCTTCAAG AAGATGGGTG TTGACAAAAT CATTCCTGTA GAGAAATTAG TGAAAGGAAA
ATTCCAAGAT AATTTTNAGT TTATTCAGTG GTTTAAGAAA TTTTGTGAGC CAACTATGA TGGAAAGGAT TACAACCTTC
TNTGGCGCG GCAGGGCCAG GACGTAGCGC CACCTCCTAA CCCAGTTCCA CAGAGGACGT CCCCCACAGG CCCAAAAAC
ATGCAGACCT CTGGCCGGCT GAGCAATGTG GCCCCCCCCT GCATTCCTCG GAAGANTCCT CCATCAGCCC GAAATGGCGG
CCATGAGACT TGATGCCCAA ATTCTTTGAA CTCAAACCAA CAGCT

SEQ ID NO:917: (Length of Sequence = 400 Nucleotides)

GCATTATTTA TTGAAACTA TGTATTTTTT TGTA AAAACC TGATCACATA GAGAATATCA GTGGCTATAC CCTCTCTGGG
CATCAGTTTC CTCATCTGTA AAGTGGGGAT AATCACAGCC CCCACCACAG TGGGCTTCAG GGAGGAATAA ATGCATTAAC
ACATGGCAAG TCAATTAGGA CGGTGCCTGA CAGGCTGTCA GGGCCCAAGG TTGTGACTTT TGCTTTTCTT ATTGCTACTC
TGCAACCAAC TTTAGATAGT GGTAGANTAA TCAGGAGGCC CTCTTGAATG GGATATTTTG CACAGAAGAG GTCCAGACC
GAGTGTGTGT GACATGGGAG CAGAAGACCC GGGGTTTNAG CCAGGCTCTG CCACTCATAC GGTGTACAAT TTTCAAAGGG

SEQ ID NO:918: (Length of Sequence = 348 Nucleotides)

CTATTGCACA TGGTAACTCT GTCATACATC TATAAAGCCT AGTAGCTGTA TTGGGTGAGA TGAAAAAAC TGCTTATATT
CCACAGCAAC ATAATTACAA ATAAGTTTTA ACCTAATTAA GTACAGAGTC TCTCTCATCA CTTTCAAAGC AGGACCTTAC
TTACCAATAA TTCATAGCAT ACCTCCCTTT ATTTTAAAC TCATATGATA GCTGATTTCC TAACTGTAGC AATCAGGATT
CTTAGAAAGA TTCGAACTG AATTAGCTA ACTAAGGAAG CGGATTTTCT TAAAAATATT GGGTTAGTTT ACAGGAATCA
GTAGTGGAGG AACCAGGGTT GCATAAAA

SEQ ID NO:919: (Length of Sequence = 345 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTACTCCAGA AGTCTTCTCT GGGTGGAAAG GAATGAGTGT TTCANACTTA
GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCCTCATTG CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT
GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCACGTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTGT
ACTCTGCAGT AGCAAAAGCA TTAGAACATC ACAGAAGTGA AATNCAGGCT TGAACAGGAC AGAAAAGATA GAAGGAAGTC
AGAGGATNCC ATGGGAAAAT GAAAT

SEQ ID NO:920: (Length of Sequence = 299 Nucleotides)

CCCAGGTACT CAGGGAAGGG GCAGGAGAAC CACTTGAGCC AAGGAGTTCA AGGCTGCAGT GAGCTGTGAT CACACCACTG
CATTCAGCC AGGACAACAG AGTGACATCC TGTCTCAAAA ATAAATAANT TTTTAAATGA TGAAACTAAC TAAGGTAAGT
AGGAGGTAAG ATATTTCCCC ACGGTAAGTC ATTCAGAAAC TAAATGTGAA AAACCAAAG AAGCCTCTGG GGTAGTATT
CCAGTCTCC TGTCTGCC AGGACCCAC ATTTGTGTAA GTTGCTAATT GCACAAGGG

SEQ ID NO:921: (Length of Sequence = 234 Nucleotides)

ATGAAGCAGA GGCAACCAAC AGAAATGAC ATCAGAAACT CTGCTGNTC CCCACCAGCA TGCTACCGAT GANTCCTGCT
CTCTTCAGA TGAAATTTTA TTTTTTNC AATAAGGCCA GCOCTACCCT GGAATCTGGA ACCANTCTG GCCCAGGGTA
GAAAGGCTAC CAAGCACCTA TGGTAGAAGC CTTGGTGTCC AGGNATGCCT TGGNCCTTAT TATTGACCTT CTCT

SEQ ID NO:922: (Length of Sequence = 328 Nucleotides)

TAGCAGGGTT ACTGGCCTTG GCTGCGGCCA AGGGAAACT CTGCAGGCC TATTACTTGG CGGCCTTTAA CTCTTATAGA
ATTGGGAGAG AACACTGACA AAAGCGAGGA CATGATTTIN CGGTACAAA TNATTTTCTT TGTCTGCTTT CTCTCACCC
TTTNAATTT TCCTTTCTN CTTTCTCTGT CTATCTTACC TTCCCTCCGT GATCCCTGCC AGCCCTCTCT TTCTTATTAT
AGCTGATCAT GGCAGTATTG TTTTTTNC GGTAAATATC AGAGTGGGAT TTAGAGAAAG CTTAGCAGGC CTAGCATGAG
GGCCTTAG

SEQ ID NO:923: (Length of Sequence = 371 Nucleotides)

CAGGAAACCT ACTGTGAAAA TGCAGAAAA CAACAGCAA AATTGATTGT TGAATCAATA TGATATATAG TTCAAATGTA
AACAAATGCT TGTNAGCATT CCACATCACT GAAGGAAAA AAGTAAGTTA TTATTTCCAA TGTGGGAGT TAGGTTGCTA
TAAGCTTATG ANCACACACT TTCAGTGAAT TTATGTAGAA TCGGAAGCAC TTCATTCTCC CCTCACCACA CATCACCCCC
TTGCTCTCC TCGACACGTG CAAAATGATA GGGCATGTA GGGGTGTAG TGAAATGAG AAGGCATGCC CCATCTCAAG
AAACAGGGTG GACCAGCCAC AGCTTTCAGC TCCANTCTT GATACAGGAA T

SEQ ID NO:924: (Length of Sequence = 371 Nucleotides)

ATGATCTGCT TTTTTTGTAT ACCTTTACTT TTNAGT AGGNGCGGGG TTTCTGGAGC CGACTGAGGG ACTGGAGAAG
GCTACGGGGG TCCTCGCCCT GCCAGGGCAA TCCTT CTCTTATCA TTGGTTATG CAAATCGCGG TAAAGTTTTT
CCGAAGGGGG TGCTGGCTCC TCTTGGCAGC TCTTCTTGT GACTTTGGGC ACCAGGGCTG CTCATACCTG CAGCCTTTTC
GGCCTCTNG GCCCGCAGGC GTCCGGCCTC CCGAAGCACT GCCATGGCCC GGAATAGCAG CCCNGAGCA AGG

SEQ ID NO:925: (Length of Sequence = 317 Nucleotides)

AATGCTTTAT GATCAACTTG CCATAGGACT GATGGATTAA CCAGTGTTCG GCCTTATTTG AAGTCTATGC CCTGCACAGC
TCTTGTATGT ATTINAGATG CTAGAAGTTT TTINAGCATG TNATGTGIGA TTCTTGTGTTG AATTCTAGEN ACCTTGTCCA
ACTTGGTTCT TTTTCAAGGT TGTMTGGGT ATTCTGGGTC CCTTGTCTTT CCATATGNAT TTNAGGATCA GCTTGTCAAT
ATCTGCAAAA AAAAAATCAG CTATATTTTG ATAGAGNTT GTATTGCATC TTTAGGANTG GTTGTGTGAG TATTGCC

SEQ ID NO:926: (Length of Sequence = 247 Nucleotides)

GTTATTCATA CCACAGCATT TAAAAAGCAA TCCGCAAGTN ATAAAAAAA AAAAAAAAAA ATGATGTGAC ATATCCATTG
CCTGANITGC CTCTTTGTGA AGCCAGINTT GGGATTATAG CAGAGGAGTA GCAGAAATAA NTATATTGAG ACACAAACAT
ATAGATATAA TAATATCCAA CCNCTTTATA TGATTTAGGG TCTCGTTAAA ATGGTTACCA TTTGCTTCTC CTAAANITA
TATAAT

SEQ ID NO:927: (Length of Sequence = 286 Nucleotides)

GGCTGTCATG AGAATCACTT GAACCCGGGA GCGGAGGTT GCAGTGAGCT GAGATCATGG CACTGCACCC TAGCCTAGGT
GACACAGCAC AAAAAAANC AATGTTCCAC AAGTCAAAAA TTGINTTCAG GGAGTAGAAA AGTAGTAGGC TAGGTATCAA
AGGGTATGAA TGAATAAGTT CCTTCTATAA TATATTGACT ATAGGTTAGG AGATACACTT TCAGTTCCIG TTTTNGTAG
ATCTCCAAT GATCTGTCTT TTAAGAGTAC ACACGATGAG TGGAAA

SEQ ID NO:928: (Length of Sequence = 349 Nucleotides)

CTTGTTTAAAC CAGTATTTAT TGCACATGGT TTTGTATCT ATTCATGTG GTAAATTACC CCATACTTTG CTCTTTAAAG
CATTAGACAT TTCTGTAGGT TAAGAATTCA GAAGCAGCTT AGCTGAGCAG TTCTTGCTCA AGGTCTGTCA TGAGGTTGCA
GTCAAGGAGC TGGCCAGGGC TGCAATCATC TGAAGGCTG ATTGGGGCTG GAAGACTCC TTTCCAGATG GCTCCCTCAC
AGGCTTGGCA TGTCAAAGCT GGATTGTTGG CAGGGGACCT CCATTCTTCC CCACATGGGC ATCTCCATAG GCTGTTTGAC
ATGGCAGATN GCTTCTTCCA GCAACTGGG

SEQ ID NO:929: (Length of Sequence = 395 Nucleotides)

AGAGGAGGCA GCAGCCACCC CCAAGAAGAC TGTACCTAAA AAGCAAGTTG TGGCCAAGGC CCCAGTGAAA GCAGCTACCA
CCCCTACCG GAAGGTTCT AGCAGTGAGG ATTCTCTCAG TGACGAGGAA GAGGAGCAAA AAAAACCCT GAAAAATAA
CCAGGTCCCT ACAGTTCAGT CCCCCGCCT TCTGCTCCC CACCAAGAA GTCTCTGGA ACCCAGCCTC CCAAGAAGGC
TGTTGGAGAAG CAGCAGCTN TGGAAAGCAG TTAAGACAGC AGTGATGAGT CTGATTCAAG TTCTGAAGAA GAGGAAGGAA
ACCCCCAAT AAGGSCAGTA GTCTCTAAG CAACCACTAA ACCACCTTCA GCAAAGAAAG CAGCAGAGAG CTCTT

SEQ ID NO:930: (Length of Sequence = 214 Nucleotides)

ATCCAACAAT GACAATCTCT CTTCGGACAA TATTGGCACT CCATTCAAAC CTGTGTTTCAG GTCAGTCCGC ACTTCATCAT
CTCCCAATTT GTCCAAACA TACTGTAGCT CAAGTACAGT TTTTAAAGT TTCTGTNCAG CTCTTCTCT CATAAGCTGC
TCCCGACGTG CTGTCTCTT NATGTGTTT TGAATATCTT GACTTAGTGC CATG

SEQ ID NO:931: (Length of Sequence = 245 Nucleotides)

GAAAGINTTC ACAACATGA TGCTTATCTA ATAAATATC ACTGAGCAAT AAGGAGAAAT ATTTTAAATA GATTGAAGT
TGTAACAAA TAATTAGAG TCCAAAGAGG ANAAGANAA TTAATCTGT TTTTATCCC TAGAATCAG AAACTTTACT
GGATTGGTCA ACAAGACAA ACTTTTATT GTATAAACA GTAGANTCA TGAAGGGAT AATNCTTTTG GAACAGGCTT
CTCG

SEQ ID NO:932: (Length of Sequence = 303 Nucleotides)

CATATTGGGG GCCAATATA AAGCAAAGCT GGAAGAAGG ATGATCCATG TATTINTGG GATGGGATAT GGACAGGGAA
ATAGTGTTC AACTCCATGC TGAGTGTGT TTTGAATGT AATGTGAAGT TGCCACCATA CCAGGGCTAT GACTGTNTAC
GATGTCTAC CCTGTAGGC TAGTAGCTTT GCAGTGGGAA AAGATGACAG GCCACTTGT CCAGGGCAAT CAGGTAATAA
AGTCCCTGAG CTCCAGTTG CTAGATCTAA GGAAGTATTT TTCCCTTCAT GTCAAAGATG GGG

SEQ ID NO:933: (Length of Sequence = 186 Nucleotides)

CTCTTTTGGG CTGTTTANA TCCTGGCGA ATTGAAAGCA GTGATCTCTC AGGTGCTAAC CGGNATAGTA TTAGAAGACT
CCAATATCTT GCAGCTGTG GGACTTACTG TATTATCTT TGTTTGTGTT CATTGTCTTT TGGGTTCTTG GTCATGAGGT
TTTGCTAAG CCAATGTCTT CAAGGG

SEQ ID NO:934: (Length of Sequence = 336 Nucleotides)

GGGAAAACGT ATCAGCACAT GAAATACCTT GTAACATTTT CATTTATATA ATTTGCTACG TGTTCTTTGC AACATAGTGA
AAAATAATCA TGTCTGATGT TTAGTAGGCA CATAATAAAT AGTAATGGAA TGAATGGTTG TATATTTAGA GAGCCATGCT
GAAAGGTAA ATAGCAAAAT ATGACTACTT GGAGAATAAT GTTAAATTGT CAAGGAGAGT AGTGTATAT GAATACTCAG
ATGGATGGAT ATATAGANAA TGAGAAAAGC GACAGAAGGA ACTTAAAGAG NTTTTAAAA TAGCTTTGTC TAAAGATTAA
AAATTAAAGG TTCTAA

SEQ ID NO:935: (Length of Sequence = 383 Nucleotides)

AGGTAAGAAA ACTGCTGAGT GGGCTCCTTG TACCAGCACC AACCAGCAGC CCTTGACAGC ATAGATGGGA TGAGTGTAA
GGCTATCCTT AGCATAAGGG AAAGACGGTT ATAAGCTGAG AAGATTGAAA GAAGAATGGA GCCACAAAGA GAATAGCATA
AATAACAAGA AGGAAACATG AAGAACAAGC ACTTAAGNTA TTAACCTTCA GTCTTTCTCC ATTTCTTGAT GTCTAATGAG
GCAAAATAAC TGGGCAAGGA CCACCAAGAT GAAGAAGTTA AATAAAATGT CACAATGAAA TTNAGGTGCA ATAATACAAC
TGTTGACTGA CTTTCCAAAA CCACGGTGAT CGGTAGAGTA TCATCAATGT TACCGAGGAT TTT

SEQ ID NO:936: (Length of Sequence = 204 Nucleotides)

GAAGCTGTGC CACCCTTCTN AACTTTNATG AGCTGCCINA GCCGCCAGCC ACCTTCGTN ACCCAGAGGA AGTGGGAAGGG
GAGCCCCTGG ATGCCCCCA NACCCCACT CTGCCCTCAG CCCTTGAGGA GCTGGAGCAA GAGCAGGAGC CGGAGCCCCA
CCTGCTAACC AATNGCGAGA CCACCCAGAA GGAGGGGACC CAGG

SEQ ID NO:937: (Length of Sequence = 386 Nucleotides)

CTAACTAAAT AAGGGTTGCC AGATAAAGTA CAGAAGGCCC AGTTAAACTT GAAATGCATA TGANCAAGAA ATATATTINA
GTATGANTAT GTCTCATGCA ATATTTGGGA CATAATTATG CTAAAGAAAG TATTCACAGT TTTNCCAACA TTCAAATTGG
AATGAGTGTC CTGTATTTIN ATTTGCTAAA ATGGGCAACC CTAAGCTGGT ATCTCTACAG TTACATACAC TTACCAACCC
CACCCATTCA TACTGGTCCA AGTTACACCC CAAAAGAGGG CAGAAACAGA ATCTGAACAA GCTCAAGTTT NGAGGGCAAA
AATGTTTCAT TCTGCCCTCT GGATTNCTGT ATGAAGACTT TGTGTGTGAA AGATATGAAT AGAACC

SEQ ID NO:938: (Length of Sequence = 349 Nucleotides)

GACACTTTCA GAATTAAGAA GCCTTGCCCT CTTGCGTGT CTTCACAATT GINTTAAGTC TATTATAGTA TTCATTTTAG
TTTGAAAGCA ATAAATACAA TATTAGTACA AGCACACTGT CAAGAAATCC CTAGAATATG GCTCCTCTGA AGGTTGACAT
GGGTCTGCCT CGCATGTATC TTTTCATCTC CAGCATCCAG ATCAGAGTCA ACAACAACAA CTCTACAAAT ATCAGGCTTC
TTGGTGGAAG GAAATCTGGA CATTTTINCT ATGAAAAAA AGTTAGGTTA CATGGCATT AATATTTTGC TAGACTTAAC
CTACAGAAAA TGTTTCAAGC TTATAAAAA

SEQ ID NO:939: (Length of Sequence = 374 Nucleotides)

GAAATAAAGC CTCACAAGAA ATAAGGTGCT TATGGTGTAA AGTTACAATG GAAATAATC AATGGCATTT GTATGCATGC
TGATGTGTG ATGTAGATCA GTTCATAGGA GATGGGGCAA CAAATAAATA TCACCATGGG GATGTGATCA TCAAAACCCA
GGCTGTGGAA AACTGTCACT CAAGTTTCTT CAACATATTG CAAGAAAAAT ATGATGGCTT GAAAATCTAT AGATGAAGCA
ATTTAACAAA CCTACCAATC TCATTTAATC TTGATTACTT TTAATAAAAG ATTAATAAGA TGACAGAGAA AGGGTTTAAA
AATTTGTAAG ACACGGCTGG ACGCGTGGC TCACACCTGT AATCCAGCA CTTT

SEQ ID NO:940: (Length of Sequence = 385 Nucleotides)

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GTAATCCCAG CTAAGTGGGA GGCTGAGGCA TGAGAATTTC TTGAACCCGG GAGGCGGAGG TTGCAGTGAG CAGAGATCAC
 GCCACTGCAC TCCAGCCTGG GCAACAGAGC GAGACCCGTG NTCAAAAACA ACAAATAAA TTTCCTTTTA ACATCTGTNC
 CAAAATGAG ATAAGCGTTA TCAGGGCAAG TCCATCCTCA TCACTCTTTC CCTCCCCACT GCCCTCTCCA CGATGCCAG
 CTGATCAAAA GTCATTTTTA CTCATAAGAC CAAAGTATCA TGGGATACTG TGCAGTINGA GAGCAGGTG ANCATCAGAA
 ATAATTGCTG ACAATAAAGT AAAAGATGGG AGAAAAGCAA GGCCNATGT ATATAATACA GCTTC

SEQ ID NO:941: (Length of Sequence = 406 Nucleotides)

GGTAACAGGT TTTTACCAAC AATTGCTTGT AGCTAATGTA GAACATACTT GAGAAAATGG CTCTGTGAA AGACCAGTTA
 GTACCAAAT AATCTGGCCC AGAAAAATAG CCACCATCTT TGACTACATT AATAGAAATA GAATAACCCC CAAAGGGAGA
 TGAGAAGCAT TCTAAAGTGC ACTGATCATG AGTTTCTATG TGATGATTIG TGTCCATTIG GAGCTCCAGT GCTTTAAAGC
 TGAAATGAAT CCTGGCCTTT CACCACCCTC CCTGCCATA GTATGGTATA TCCTCTTATT CCTTCCCTCT TAGCTTACTG
 AGAGTGTAAAT TTCCAACCAG TTAAGGCCAA AGAGGACTAT TTTCTAGGAA AGGAGAGAGA GATGAATTAG CAGTTAATGG
 AGGAGT

SEQ ID NO:942: (Length of Sequence = 296 Nucleotides)

GATGGCTCAT GCTAGTTCAG CAAATATTGG GCCCTTCCIG GAGAAGAGAG GCTGTATCTC CATGCCAGAG CAGAAGTCAG
 CATCCGGTAT TGTAGCTGTC CCTTTCAGCG AATGGCTCCT TGGAAGCAA CCTGCCANTG GTTATCAAGC TCCTTACATA
 CCCAGCACCG ACCCCCAGGA CTGGCTTACC CAAAAGCAGA CCTTGGNGAA CAGTCAGACT TCTTCCAGAG CCTGCAATTT
 CTTCATAAT GTCGGGGGAA ACCTAAAGGG CTAGAAAAC TTGGCTCCTC AAGAGT

SEQ ID NO:943: (Length of Sequence = 223 Nucleotides)

GTGCCATTAC AACTTTNCTG TAACCTGAA ATGTGTGCAA AGTGAAAAT TTTTAAATGA GATTATAAGA GCATAATCAA
 ATTGGAATTT CCTTAGGATA CCAGAGAATC ATTTNCTTCT CAGGTAAAGG ANTTTTCTT TTTGTAGTCC AGAGCTATAC
 ATGATTAGA AANTGTTTCTG NCCAGGAAGA TGACATCTCT GCTAACCTAA TCGATTATCA TGG

SEQ ID NO:944: (Length of Sequence = 327 Nucleotides)

CCAGGCACTC AGGCTGGCTG TCCCTTTNNT CCTCTGCCC ACCCATCCA CTCTGAGCAT CAATGCAGCC GGCCAGTTGC
 AGGCAACCAG GCAGCACCTT GGCTGCCAG GCAGGCTAAG AGGCCCCAC CCACTCCCC CTCTTTTGGC AGTGGAAAAG
 CTGCGGTAG GCATAGCTTT CCCAGCCTTC CCTGCTTCAN AGGCAGGAGC ATGGCACTCT GGGAGTTGTA GTGCTCATAA
 CACTCAGGCG ATCCCTTGTG CAAATAACTG GAGGAGAGGA CTATGGTATT GGGGAAGAGA AATTNAGGAA TAAGCAAGGA
 GTTGGCT

SEQ ID NO:945: (Length of Sequence = 222 Nucleotides)

CTTAAACAAT AAATACACCT GAGTTAGTTT TCCAACCTT TCCTCTGAT TAAATGCCCT TAAACCTTAA ATCTCTTGT
 ATCTTCAGTT GTGATCTAGT CCAAGTGGGA AATTACGTTT AGCTTTTAAA CCATGAATTT AAAGCTCAAG CCTGTAGCTG
 GCTGCCTAGG CANTTTATGA TTAGTTTAC AGAATAGCAC CCACTGGCTA CACAGNCCC AG

SEQ ID NO:946: (Length of Sequence = 286 Nucleotides)

GCTCTCTCTA CCCCTCATC TAGGTATGTN TATAGCTCAT TTATTTAGGG GTGATGTAA AAAATTGAAT GCCCTTAATG
 GCAAGGGAAC CAACCAATCA ATGTGGATGC CACAACCTTT TCCCCTGTG ACTGTGTINA TTGGTATGGA AGTATTTTTT
 TTTTCTCCA GCTTTTATTT CAGGTTCAAG GGATACATAT GCAGGTTTGT NACATGGGTA AATTGCATAT TGTAGGGGTT
 TAGTATACAG GTTATTTTAT CACCCAGGNA ATAAGCGTAG TACCTG

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SEQ ID NO:947: (Length of Sequence = 335 Nucleotides)

GGAGGTGCAT TTNCTCCCC TTGAAAGAT TTATGTAGAT TCCTAAAAGA AAATTCAGAA TATGGAGTAG CTCCTGANTG
 GGGAGATGTT GTTAAGCAAT CTGGATTTCT TCAGAAAGC ATGTATGANC GTATTCTCAC TGGTCCCGTT GTGAGAGAGG
 AAGTAAGCAG GCGGGGAGA CGGCCTAAAA GTGGAATTGC AAAGNCACA GCAGCAGCAG CTCTGCAATC TGCCACCAGT
 GTTTCAGSCA ATCCTTTTGT TTAAGCCAAT GGACCTACTT CCAGGNGTG GGNTCTACA AACTTNTTC AGGGCCTTAC
 AACAAAAACC TACAA

SEQ ID NO:948: (Length of Sequence = 216 Nucleotides)

GGATGTAAGC TCCAGACAG ACATCTGGG AAGCTTCGGC ATCAACAGCA ACANTCAGTT GGCAGAGAAG GTCAGATTGC
 NCCTTCNATA TGAAGAGGCT AAGAGAAGGT TCGCCAACCT GAAGATCCAG CTGGCCAAGC TTGACAGTNA GGCTGGCCT
 GGGGTGCTGG ACTCANAGAG GGACCGNTG ATCCTTATCA ACGAGAAGGA GGAGCT

SEQ ID NO:949: (Length of Sequence = 369 Nucleotides)

CCCTTCCTCA AAAGATAAAA ATCTCTGGCA GAAGAAATAG TTACCTGCTG CCATCCATCA GTACTGCAAT TACCATGACT
 CTAAGTGACC TTCTTGCCCA ATGTTTAATG CACAATGGAC CGTGCCAGG GAGACCTGGG CATNTCTGT TGCTTTGTTC
 TACAATGATC CCTTCTGTTC TAGCAGCGTG ANTCAGTAT GGTCACTCTC TCTGAGGACT GTACGCATTT TCACCCTATA
 TCCACCTGTA CCAGAAAACA TGGACATAAT TTAAAGTTA TTCTACTTA ATAGAGTGAT ATTCCAACCT GTGTGGGAAA
 ATAACCATIN GTCACCTTTT AAAGGAATGG TATTTAACAT TTATTTATA

SEQ ID NO:950: (Length of Sequence = 288 Nucleotides)

AATGGTGAAA TAGAAGTCCA ATTACCTGGG GAACTTCAT CTTAACCTC TGAATTTNC AGTCTAACCT AAATATTGAT
 ACTACACCTG CAGCAGCAAT TAGTTTAGCA TGTAAGTAAA AAGTAAGTCT AAAAAATATT TNCATAATCT TTGGTTCCTA
 AAATGTTTTT AAAAGAGATG CAGTGACATA TGCTGGAGT TTGCTTATGG CCAATAGGTT AATGCTTCTA GCTTCTATGC
 TTATTGCAA TTTTAATTAT GTGAATATGC AATTTTCACT TATATTG

SEQ ID NO:951: (Length of Sequence = 302 Nucleotides)

TGTCACGATG TTACAAGAAC GATTCGGGA GTTNNCCGA NACACGGGA ACATTGGGCA GGAGCGGTG GACACGGTCA
 ATCACCCTGGC AGATGAGCTC ATCAACTCTG GACATTGAGA TGCCGCCACC ATCGCTGAAT GGAAGGATGG CCTCAATGAA
 GCCTGGGCCG ACCTCCTGGN GCTCATTGAC ACAAGAACAC AGATTCTTGC CGCTTCCTAT GAACTGCACA AGTTTTACCA
 CGATGCCAAG GAGATCTTTG GCGGTATACA GGNCAAACAC AAGAACTNC CTTGAGGAGC TT

SEQ ID NO:952: (Length of Sequence = 302 Nucleotides)

TTTTTTTTNT CCACTTCACA GTTGATGCCA ACCCAGCCTG CATCACAGAG ACACTTATAT CCACTGAGAC CTCCAGTACA
 GTTTCATGG ATGCAGGAT TGCNCAGGCA TTCGTTACC TGINAGTAGC AGCTGGGGTG ATGGGGTCCC TGGGGCATA
 TACAGCGGAA ACCATTACA CGTTGATAC ATGNGCACC CTGCGACAG GGATTGGNG CACACTCATC AATGTCAATG
 TTACATCTCT GGCCTGTGAA ATCCTGGTGA GCAGACACAA CTGTAGCGAT TAATTGCCAT CC

SEQ ID NO:953: (Length of Sequence = 301 Nucleotides)

GAAAATNAAC TTGTTTGAA AAGTTAGTAT GGGTTAGAAA TGGGAAGAAA ATCTAAAATG TAAGAGTAAA AGCAAGGCCT
 TCATGGCAAT CTCTTTTAAAT ATGGGCTTIN CTGTGTAGT TAACATCTGA TAATATGACC CCCCATCTA TTAATATTTA
 TTATACTCAT AAAATTACAG AAAAACCTA AGAAAGGTA TGTATTGAAG TGAATGAAT AAATGCAAAA AATGTAGTAC

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TTATAACATT TTGAAGAAAA TCTTTAAAAA TMTTGTTTA CACAGAAAAT AATCTTAGAA A

SEQ ID NO:954: (Length of Sequence = 217 Nucleotides)

AGAGCTTAAA AATAGTGAAG TCTTTATAAG TAATTTTAA AAATTTAAAC TAGGACCATA AATTTCTAAA CTATGAGATA
AATGANCAAG AAAACAAACA GGTGTTTAGG AAAAGGTATG TATATGGTCA ATGAAATAAA TACAACTGTA TTTTAAATGA
GANTTAACAT ATTTTNNTTT AACAAAAGCA GCATGTAACA CACAATGTAT TATATGT

SEQ ID NO:955: (Length of Sequence = 260 Nucleotides)

TATTTGATAG AATTTTCTAG TGAAACCATC CTGACTTGGG GTTTTATTTT GGAGGAATTT TAAGTTATTA ATTCCGTCTC
CTTAATAGTG ATAGGACTAT TCAGATTACC TTATTTTATA TTTGGTGAGT TTTGGTAGCT TGTGTTTCTC AAGGAAGTGA
TCCATTTTCT CTAAAGTGGC AAATTTATGT GTGTATAATA ATTTGTAGTA TTCCNGTATT ATCCNTTGA TGTCTGTAGG
GTCTCTAGTG ATATCCTATG

SEQ ID NO:956: (Length of Sequence = 216 Nucleotides)

CCCTATTAAA TCATTAAGCA TTGCATGCAA TACTTTTINCT GTGAAATAA TTAACCTCCT GGTATATAAA ATTATTTCTA
GTTATGTTA AATATTTCCN CTGGGATATT ATCATCTTAG ATCTGTAAAG TGGTACTAAA ATAGTTAAAA ATTATTTNTA
AGATATACAC AAACAGAAAA ATATAAANC AAATGTATCT TATACATAGT ACTTGG

SEQ ID NO:957: (Length of Sequence = 353 Nucleotides)

TATGTACCAG GTGTGGAGCC TAGAACAGAC ACCAGTCAGA AGTGCAGATA AGGTCTGACT TTCCAGCATA GCCAGGGGAC
TTGGCTGACT CCACATGTCC CCAGGCCTTA CCTAGCTGTA AAGCAGGCAG GTTGTGAAGT CATAGTGGCA GTTTATGAAA
TATTTAGGGG ACCTAATAAT CTTTAAATG TATAACATTT CTGTCATAAA TTTCCCTTCA TGAATCCTTT CATGACTTAG
ACCATCTATG ACATGCTTGG ACTTTCTGAC TTGTCTTAAC CACCCCTCTC TTTAAACAAC CAGTCTTTTT ACTTTAGGAC
AAGAATTTAC CATACAAGAT TCTTTTGTAT AAA

SEQ ID NO:958: (Length of Sequence = 410 Nucleotides)

AAGGAAATGA ATTTGATAGC AGATTGTTAG AGATTAATTA CCTATCATAT GCCAAAGCCA CTTCCTACAT GTCAGTGTCTA
AGGAATCCCC TAGAGATGGA ATTCCTAGGT TCAACTGAAA ATTAAATGTA ATTAATATAA TAGGTTAATT CATTTGTAATT
ATTTTAAAGC CTTTGGCAA TGAGTTAATT CCACAAGATC CACATTGCTT GAAGTGTAC AGAGAACACT TGATGAGAAT
GINCTAGTAA TAAACCTTAA CCTCTGGGG AAAAAATCCT ACTGTCTTTC CTTCTGGCTT CGTTCTTCTT GGAACATATT
TNGGTGGCAT TTGGATATCT GGAGGACAAA GGGATCCCTA CAAGGTGGNT GCATAAACAT GCGTGGGCCC AGATGGACTG
TGCTCATTTG

SEQ ID NO:959: (Length of Sequence = 197 Nucleotides)

GCCCGGCGAC CGTAGCATCT TCTGGACCAC AAAATAGAAC ATTGCCAGGC AAGGCAGGGC ATTTGGGGAA TTINAGAGAA
AGCAGGATGA GTGATGGAAT TGGGAGGGTG GCACAAGATG TTAAACAGCA TATCTTAGTC CTCATCTAGG GTATAAACA
GGACCCATGG ACTCTAGCAT CCTGGAATGA CAGAGGG

SEQ ID NO:960: (Length of Sequence = 345 Nucleotides)

AATAAACTTC TGTGTTTTA AGCCACCTAG TTGTGGTCAC TGTATATGGC AGCCTTTGGA AACCACACA CCCGCACATG
GCGTGTAA CGCAGGCTGA TACAACCTA AGAAAGGAAT GGNTGTGGTC ATCAGCAATC TCCAATACCT ACAGCAAATG

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GGAAGACAGG GAAGGACCAG AGGTGTAGGT AAAGCAAAAA GCCACAGGTC ATTAGGAAGT GATGCTCCAA CTGGGCATGG
 AAAAGGAGTT TGGAGTTAGG AACACGACAG ATCTGTCTGG ACAAGGNTCC AGATCTCTCC TAGGGGAAG NAGGGGCAAC
 TTAGGACAGT TTTTGTGTCT GTGGG

SEQ ID NO:961: (Length of Sequence = 327 Nucleotides)

GCTGAAGAGG AACATGTGTC CTCGGCCACT TCAATCACTG AGTGTGACAA ACTTTCTTCC TTGCCCACAT CAGTGGGTGA
 GGACCAATCT NTGGCCTCAC TTACAGCTCC CCAGACAGAG GAGACAGGCA AGAGCTCCCT GCTGCTTGAC ACAGTCACAA
 GCATCCCTTC CTCCTGACT GAAGCTACGC AGGGCTTGA CTATGTGCCA TCAGCTGGTA CCATCTCACC CACCTCCTCA
 CTGGAAGAAG ACAAGGGCTT CAAATCACCA CCTGTGAGG ACTTCTCTGT GACTTGGGAG TCAGAGAAGA GAGGAGAGAT
 CATAGGG

SEQ ID NO:962: (Length of Sequence = 369 Nucleotides)

AATTTAGATT TGCAAGTTTT CTACATTTTC AAAAACAAAA AACAAAAAAA CAAAAACAA ACAACAAGAA ACGTAGACTA
 GTTGGGCTCT GTCATGCCA GGACATGAAT CAGCCCCCA TCCAGCTTCT CTGACCATTG GTCACITAGT GGTCTTCTTG
 GTTTTCAGAT AGCAAGAAGG GTGATTACAG CACGATATTT TGACAGAGAC CACATTCACA TAGCTTTTAT TAGTTATTGG
 TTGCTGTAA TCTCTACTG TNCCTTGTTA ASCCTTATCA TGGTATCTAC GTAGAGGGAA AAAGCCACCG TATAGATATG
 TAGGGTTCCA TACTATCCAG TCTCAGGGCA TCCACTGAGG GGTCTTCTG

SEQ ID NO:963: (Length of Sequence = 278 Nucleotides)

CTCAAACACC CGAGGCCGGG AGGAAAGAGA AGCCGATGCT TCAGAGCAGA CACTCCTTAG ATGGCTCCAA ACTTACAGAG
 AAAGTGGAAA CTGCTCAGCC GCTGTGGATA ACGTTAGCAC TGCAAAAGCA AAAGGGGTTT CGGAGCAGC AGGOGACGG
 GGAGGAGAGA AAGCAAGCCA GAGAGGCCAA ACAGGCAGAA AAGCTCTCCA AAGAAAATTN GAGATCTCCG ACTCGGCTCC
 CCCAGCGCCG CTGGTAAAAG AAGTCACCAA GAGGTTTT

SEQ ID NO:964: (Length of Sequence = 349 Nucleotides)

ACACTCTCAG TATAGACAGT CGTGAAGAAC AAGGCTGAGG GATTTTNAAG TAAACCCATT TTCAGGATGA CTACAATCCT
 TCCACTTCTA GAAACTTAG AAGTACAAGA AATAGCTCTA CTACGGGTAA CTGATTTAAC AATTTCCCAA ACACCCCTTC
 CACTACCCAA GCCCGTGGCC CTCAGAGAGA ACOGGGATGG ATTGCCATCT GGGTTCAGAG GCAATATGAG GAGGTTGGGG
 GGATGGCAGG GGCATCTCA GGGTTGGGGG GCAGGCCAAG GGGATGAGAT GGCAAAGGAC AGCTTTNGGA ATCAGATAGA
 CGATCCAGCG TGCCTTCCTA CACTTGCAT

SEQ ID NO:965: (Length of Sequence = 361 Nucleotides)

AGCAGCAAGC CAGACGTGAC TGTCAGGAAC AAGCTAAAAT AGCTGTGGAA GCTCAGAATA AGTATGAGAG AGANTTGATG
 CTGCATGCTG CTGATGTTGA AGCTCTACAA GCTGCGAAGG AGCAGGTTTC AAAAATGGCA TCAGTCCGTC AGCATTGGA
 AGAAACAACA CAGAAAGCAG AATCACAGTT GTTGGAGTGT AAAGCATCTT GGGAGGAAAG AGAGAGAATG TTAAAGGATG
 AAGTTTCCAA ATGTGTATGT CGCTGTGAAG ATCTGCAGAA ACAAACAGA TTACTTCATG ATCAGATCGA AAAATTAACT
 GACAAGGTCTG TTGCTCTGT GAAGGAAGGT GTACAAGGTC C

SEQ ID NO:966: (Length of Sequence = 163 Nucleotides)

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CTGCCCTCTG GGTCAAGCG ATTCTNATGC TTCAGCCTCC CAAGTAGCTG GGATTACAGG CATGTGCCAC CATGCCAGT
TAATTTTGT ATTTNAGTG GAGATGGGGT TTCGCCCTGT TGACCAGATT GGTCTTGAAC TCCTGGCCTC AAGTGATCCA
CCT

SEQ ID NO:967: (Length of Sequence = 365 Nucleotides)

GTGTCACTAA TATGTGTAC ATATTATTNC ATCACCAGG TGTAAAGCCC AGTNCCTAAT AGTTACCTTT NCTGCTCCTC
TCCCTCCTCT CACCCCTCTG CTCAAGTCT ACCCCNGTGT TTTCTTCTTT GTGTCTCTAA GTCCTTATCA TTTAGCTCCC
ACTTGTAGT GAGAACATGC AGTATTGGT TTTCTGTTC TTTGTAGTT TACTAAGGAT AATAGCCTCC AGCTCCATCC
ATGTTCCAC AAAAGTCATG ATCTCATCT TTTTATGGC TGCATAGTAT TCTGTGGTGT ATATGTACCA CATTTTCTTT
ATCCAATCTG TCATTGATGG GGCATTAGG GTTGATTCCC TGCT

SEQ ID NO:968: (Length of Sequence = 390 Nucleotides)

GTGTATAGTA ATTTAATAGT AATTAAATGT AGAGTATTG TAAAAACAAG GAGAGGAAA AGAACAAATC ATATTTGAGA
ACTCCTAATA ATCTCTAGA GCAGAGTTCA AAGAAGCAGT GGTAAAAATA AAGCCAAAGA GATATAGGGG CTAGTCTTAG
AACCAGGACT TCCTATAGAA CCAGCTTCT ATAGAATCTG AACTTTATCT GAAACTCTTT CACAGATCTC CTCACCTTA
ACTTCCACAA AATAAGAAAT TTGGATTTG AAGGCAAAT TGTATATTTT AAGGAGCAGG ACAATCTCAG CTGTATCTGG
GTTTGAGAT ATCCAACAA TCCTACCAA ATCACTTTTC CAGCTGCAGA CTTGGAATTT CAGATCCAGG

SEQ ID NO:969: (Length of Sequence = 340 Nucleotides)

CAGACAGAAA AAGATTTGAA GAGACGGTC AGGAAGTACG GGAATTACTG GAGGAAGAAA AACTAAGTTG TGTGCCAGT
CTCATCTTG CTAATAAGCA GGATTTGCTC ACAGCAGCCC CTGCTCTGA AATTCAGAA GGACTGAACC TGCATACCAT
CCGCGACOGA GTCTGGCAGA TCAGTCTTG CTCAGCTCTC ACAGGAGAGG GCGTTCAGGA TGGCATGAAC TGGGTCTGCA
AAAATGTCAA TGCAAAGANG AAATAAATC TAGACGAATG GAGATGCAGG AGCTTCGGGA GCCGAATTCG GGCCTTAAAA
ACACTAATTT GCTGCTTCT

SEQ ID NO:970: (Length of Sequence = 372 Nucleotides)

TTTTAAGATG GGATCTCAG GTTACCCAGG CTGGAGTGCA GTAGTGGTC ATAGCTCACT GTGGCCTCAA ACTCCTGAAC
TCAAACATC CTCTGCCCTC AGCCTCCAA ATAGCTGGGA CTGCAGGCAC ATGCCACCAT GCCTGGCTAA TTTTAAAT
ATTTGTAGA GATGGGTCT CACTTTGTTG CACAGGCTGT TTGCTTGATT CTAAAGAACG TATAGGGATC CAGCTGTACA
GAGCTTCTG CAGCTTTTG TAATAGAAAT AGTTGTAA AATTGTACTT TTACATGAGG CATCAAAGAC CTTGGAATAA
AGCTATNCC TCACATATCT GGGCCATTAT TTTGGACTTA CTATGGTTAC CG

SEQ ID NO:971: (Length of Sequence = 337 Nucleotides)

GACTATAGAG AACGCTGAAG TTTTGAATAA AAGACTCTAG GGTGAGCTTC ATCAGTGCTT GCTTTGGNTC CAAGATGTAA
TGAGATTCTN CTTTCACGTC AACAAATGCC GCAAATNCTT TCACCTGAGT GGAGCTCGGA GCACCCAGTC TCTCTGCATA
TAACCAAAC AAATTTGAAT CCAAAGGTA GATGTTGAGA GTCTTGTGG TCTGCAGCT CAGGCCTGTG AAGTTTGTGC
TAGTCATGTC CACTTCTGGA AAGAGGATAC CTGINTCTCT CAATGTGAGG GAACGGGAGC TTNGGGGCAT CAACCTCACA
TTTTCTCTC AAGGGGA

SEQ ID NO:972: (Length of Sequence = 396 Nucleotides)

TTCCTTTACA TCAAATATCC TCAATGGAAG AGGGGATATT GCACACAAAT ATCATAAAAG CACTACATAT TACTTTCACT
GGAACTAAT TTNCTACATT AGATATGACT GGATAGGATA GAAGTGATGC AGGATTATAA GACATAATAC CATACACAGC

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TGCAGACTGA CACAAACACC ATTCAGAACA AGAGAGAGGA GTGTGAAGTG CTTCTCAGCT GGGCTCAAGA CCACTTCTTT
CCAGTGCTGG AAAGAGGGGC TGCATGCAGT GTAGGAAAAG CGTGTCTCTG AACTGCCACA GGGTGTCTC GAAAGGGCAG
CCCGGTCTTG ATGCCACTTC TCCATGGCTC CTGTTTTTGG GGGAGCTCCA AACAAGTGCA GAGAAGCTGC CTATTT

SEQ ID NO:973: (Length of Sequence = 401 Nucleotides)

TTCTCAAAC TCCAGTTCTC TTCTGGGCC AAGATCTGGT CCACCACTGC CGTGGCCTCC TTCCCCTGGC GGATGTC TC
CCGCTCCTGA GCAGAGAAAC TTTTCTTCCC AGCAACTTCT TCATCTGATG GGAGGAGGGA ACTGAATAGC TTTCCCTGA
GGGAGATAAG AAAGAAGAGT GTGGTGTGAA CAGGGAGCTT TGAGCTGTGG AGTTGGGCTG GGCATGGAAA ATNCGGAGGA
GAGTAGCAAG GAATGAGGGG CTTGAGAGAA CTCTNGGATC AGCCCTCCCA CACTCACTGC CCTTTAAGGT ATCTTTGGGG
AAAAAGGG GCTTCTATGA TGAGTCTGGC AGCTNCCCAC ACTGCATTCT CCTCTGCAT TTTTTTACCA TGCACCAGGG
C

SEQ ID NO:974: (Length of Sequence = 371 Nucleotides)

TTTACAAATG AACCACTGAG CACCTCAGTA CTTAGCTCAT ACCTCATACC TTAGTTCCTT AGTACTTAGC CTGTGCCAT
CTTGAATGAG ATGGAGTGAA GTGAAGCTCG AAGGAGTGAC AGAGACATAG TCCTTGCTCT CAAGGGGTCT TTAGCCTGGT
CTGGGGGACA AGATTTCCTC ATCTACCTCT TGAAAGGTGG CAGGACAACT CCACACTGGA GTGTCTCAC CAGCAGATAG
GTGCTGCGGG AGTGTGGCGC CACATTCCTT ATAGCCACAG GCTTTCTGCG GACTTNCCTT GGGGTCTTC CCTATTGGC
TGGGTGGACC ATAAGCGCA AGTGAATGTG GCAAACCTCA ATTCACATT AA

SEQ ID NO:975: (Length of Sequence = 340 Nucleotides)

GACAACAGAA AAAGAAGTGG ACAGCTACCC TAGATTCTAG CTCACACATA ATTCAGCCAG ATAATCATCA TTAAATAAT
ACCCCTTGAA ATTTTTCAGA CTTTTCACAG CTCATAAAC ACAACATCAG ACATAACATC ACACATTGT TCCAAAGGAC
TAAAAATCAA AAGCAATTGC AAAGTATTGG GAATCACTTT TATGGCTTTC CTAAGGGACA GTCCCATCT TTCCAAGGAG
TGTTTTTAA GAAGCACTAA CTCTGGTAGG TTATCAAAC ATTTTINAT TCTAAATAAA TAAAAGACTA ACTGAAGGTC
TCAGGTGCAC ACTTATTTT

SEQ ID NO:976: (Length of Sequence = 343 Nucleotides)

CTGTCCCTA AATATTATTA AAATTTTAAA AATTAGACAT TTGGTCTAAA TTAGACAGGT AAGATACTAC TGTCCTTACT
AGATGCTTTA AAGTCATAAA CTGCTTCTAT GGCTTTINAT AATTGTCNAA CTGCTTGCT TTAGAGCCAT TGGATTCTAG
GTAAGGCCTA GAGACATTG GAGTTAGCCA TGTCCTTAG CTATGCTAGA AAGAGTCCGA CATTATCTGT GGTTCGTGCC
TGTATCTAC ACTCTACACC TGATACATAA TTAAATATAC TTACACTAAA AATAAAAATG GATGCATTTT TTAGGTAGGA
AGGGTATGGG AAATTATAGG TTT

SEQ ID NO:977: (Length of Sequence = 265 Nucleotides)

ATCTTGTAA TATCAGTGCC TAGACTAAGC CTGGCGTATA ATAGGCACTC AGAGATTGTA AGAATAAATG ACTAAATGAC
TGTATCAAAT ACTTGCCCAT TGTTGCTGT TTCTGANTG TACAAGGCCA TCATGATAAT TGATGATCTT AATAATGTGA
GAATATGATT CTNTTACCTT AGTAAGAGAG CCATCAGTTT ATTGGATGAT AGTTATATGG AAAAGAAGA AATGCTACTG
TGATAAATAT TTATAATTTT AAACA

SEQ ID NO:978: (Length of Sequence = 285 Nucleotides)

ATGGTGGGCT GCCCTGGCCG AGGTGGCCAA GATGGCACCT GTTCTCTGCC TCANAAGAAA AGGCACTGAC GCACTGACCC
TTTINAGGTTG TGTGGGTGT GGTCACTGCC CTCTGCTG AGGGTCAAGT GTGTTTCAA GTCAACTTCA GCAGACCTCA

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TTTAACCATT TTTTNTTCCC TTAAAAAAA AAAACCCAAA AAACCAAATC CCAATAAATA TGTATTTTT NTCCATCACA
ATATTGCTTT AGAAAAATAA GAGCCGTCAA GCAGCAATTT TTCT

SEQ ID NO:979: (Length of Sequence = 316 Nucleotides)

GTGCGTNCAC ACTCTCTCC TGCTCCCCAA ACTCTCATC ATTGAAGCCG AAGTGGTCAA TGAAGGCAGA GGTTCATGCGC
TGCATCTGGA AGTCCATGAA GGCCTGCTGC AGCACAGCCT CCTCAGGGAA GTTGAATCC TTGAGCCGGT CGTCTCATC
GTCACTGGAG GAGTGTAGGT GGTGGGTGTT CACCAGGTCC ACCATGTTCT TCTTGTGGT CTCGCCAGG GGCCCCGATA
CGAAGGCTTC CCACTGCTCC TGCTGCTCGC TGGGCAGCTC CTTCAGCAGC TTGCCGCAGC TGCTCTGCAA TTGGGG

SEQ ID NO:980: (Length of Sequence = 386 Nucleotides)

AAACTGGCTT GCCTTCATCA TCTCTGCAGG GNTCAGTAA GATTAGAAAT GGATTATTTA CCTTGTATTA CAAATACACC
TCTTCCCTAC ACCCAAGANT TGAGAGGAAG ATGAGCTGTT CCTGTGTATA CGCCTGANTC AATCCCATTA TCTGCATTTT
TGTTGTGGT TAGCGCTCCA GCAGCCTAAG GCGGGAGCTG GAAATGACAG CCTTGGAGAC GAGGAAGGCT CCAGGGAGGA
CGGAGAGGAA CACCTGCTGA AGAATAAGAC GGGCGGCACC AGCCGGGCTG ATTTTGGGGA ACGGAAGGTA ACAGAGGGTG
ATGCTTCTAA TCGCTTTTAC AAGTCTTGG AAAGACGGGA TNGCCTTAAC CAACTTGGGG TTTCTT

SEQ ID NO:981: (Length of Sequence = 322 Nucleotides)

GTTTATTAAAT ATTAAACAT ATTAAATAA TACATGTNCA TAATGAAAAT GAAACATTAC AAATAAATAC ACAGGAAAGG
CAGTATTCCC CTTCAGTTC CACTCTTGAA ATAACCAGTT AACAAGATGA TGAACATCTT TCCATGATGT TCTCCAAGAT
TCATATTATT TTTGCAATCA TACAATGGCA TATACAGCTC AGGTGCGGTG GCTCAGCAA GTAAATCCCA GCATTTTGGG
AGGCTGAGGC GGGTGGTTCA CTTGAGATCA AGAGTTGAG GCCAGCTGA CCAACATGAA GAAACCCTGT CTCTTACTAA
AA

SEQ ID NO:982: (Length of Sequence = 305 Nucleotides)

CCCAAGGCTG TAGTTCAGCA TCAACAGGGC AGGGAGCTG GCAGGGCAAG GGCAGAGCTG GAGATCATGC CCAGTNTTCC
AGGTGCCCTC CCTCCAATC AGCCTGGGG GCACAGGACA GGGATGGAGA AGGGGCTCTC TCCATGGCTT GGGTAACATG
CCAAAGGCAG GTCATAGGGC AGACTCAGTG GGGGTGGGG CTTGGCTAAC AAGCAATGGA GAGAACGGGG GCCATCCAGA
GAGGTGGCA GAAGAGAGCC CTTGGGTCAA GAGAAAACIT TGGGAAGAC AAGACACGGG AGAAG

SEQ ID NO:983: (Length of Sequence = 399 Nucleotides)

AGCCCTTGTT TTGTTTTTAA AAGCTGTCTG GTTACTGCTT AAAGTCTCCA AACTGTTATT GAGAACACTG ACCAGAGCCC
TGTCCATAGA CCAGTGTITT TCCAAGTGCA GATTGCAACT CCTTTGCAGA GTAGGTTGTG GAGCCATTIN AGCTGACTAC
TCACCAGCTT TCTTCAAAAT GTAAATGGAA TAGGATAGAA AAATAATGAA AAATTGTAAA GTGAATTGGA TGCAAAAAGG
GTAAATATIG TNGTGCAGA CTTTTTGGG TGAGTGTGCA TGTGTTTACA TACTGGNTCA CATTATAACA TGTATTGCTC
ATTATGGGTT GTGGTCAGAA AAAATTACAG AAACGCTGTC TCAGACTGTC CCCAAGTTGT ATTTGCTTAT AATGGGACT

SEQ ID NO:984: (Length of Sequence = 408 Nucleotides)

GTGGTATGAG GTATCAATGA AATACATTTA AGATGTACAT TGGTTTGT TT CAGAAAGGCG AGACAAGTCA AAGCGGGAC
TTCCAGGCTA TAGGTAAATT TATACATTTT CTGGTTAAGA TTGGTTGAGT TTGTTCTAAGG ACCTGGGATC AACAGAGAGG
AAATGTTTGG NTTAAGACAA GGATTGTGGA GACCAAAGTT TTAATACGCA GAGGAAGCTC TTAGCTAGCA GGCATAAGAC
AGAAGAGGCT GTAAATGTT TTCTTATGAG ACTGAAAAGG GTGCTGACT CTTAATTGAT TATCTCTGG NTCTGGAAAG

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AAAAAAAAA GGAATGGCC AGGTGCGGTG GCTCAGGACG GGTCTGGTGG CTCACACCTG TAATCTTTCT TAAAACGTTA
TGAAGTTC

SEQ ID NO:985: (Length of Sequence = 439 Nucleotides)

TGGIATACTT TGTNTTTTTT TTCTACTTGT TAGTTGTATT AGTATCAAAT GGCATAATAA AGTTACTTTG TTTGCCATTT
CCCACTCATC TGAAAATCAC AAAAAGCATT TATTTCTAAG ATTTATATCC ACTGACCTTT TCCCCAAAGT TATTTTCCTG
TFACTTGTAT TTCATCTTTG CCCTTATTTT TTTAATATTT GTATTAGAAT TAGCTTGCTC TTGTTTCCIT CACGGCAAAT
GTGTACATT GCCCACTGGG TGGCTTCTGC GGATGCCCTT ACCCACCCTT CGTCTGGAGC AGAGAAGTCC TGTTAGCCTA
GCAGCATAGT GGCTGCTGTC AGTGCGAGGA GTTGTCCTTC TCTAGCATGG TCTGTGATGT CATCTGGACA TAATTAATTA
GACTAATCCG AATAGAGGAC CAAGACAGCC CTGCCTGGC

SEQ ID NO:986: (Length of Sequence = 286 Nucleotides)

CGGCGACGAA CATGGAGAA TCCAGCTTG GAGCGCAAGT CTTCTGCGG GAAGAAGTGT CGCGGCTCCA GGAGGAAGTT
CACCTTCTCC GGCAGATC TATGATGTTG GCGAAGGACC TGGAGGAGTC GCAGGGCGGC AAGTCTCTN AGGTCTCTC
GGCCACCGAG CTCAGGGT CTGGCCCA GAAGGAGCAG GAGCTAGCCA GAGCCAAAGA AGCCTTNCAG GCCATGAAAG
CTGATCGGAA GCGCTTAA TCGAGAAGA CAGACCTGGT GAGCCA

SEQ ID NO:987: (Length of Sequence = 381 Nucleotides)

TCCAAAGGTT TTCATCTG TGGATAA ACAAC TG GTACATCTAC ACAATGGAAT TTGGGA GATGAAACAG
AATGINTGAG GGCACAT TCAATGTAT GGTG TGGTCTGCTCC CATTNCCA CAGGCA GT TGTGCT
GGGTGAGGGG CTGGGAG TGGCAGGAG CATCTAAC AAGGGTGGAA GCGAAGA TCGACCAG TCGCAGGGT
GTNTCATATG GTACAACCAA GAGACTTGGC GTGCTAGAA CCAAAGAAAC ACTCAGGACA CACGACAT CTGCAGGGAA
CCTGGGGGGT GGTGAGGAAA GTCGTGCACG GGTGCTTGGG GGGAGACTTG GAGGCCCTC T

SEQ ID NO:988: (Length of Sequence = 381 Nucleotides)

GAATTAATAC CAATAGAAGG GCAATGCTTT TAGATTAAAA TGAAGGTGAC TTAAACAGCT TAAAGTTTAG TTTAAAAGTT
GTAGGTGATT AAAATAATTT GAAGGCGATC TTTTAAAAAG AGATTAAACC GAAGTGANTT AAAAGACCTT GAAATCCATG
ACGCAGGGAG AATTGCGTCA TTTAAAGCCT AGTTAACGCA TTNTCTAAC GCAGACGAAA ATGGAAAGAT TAATTGGGAG
TGGTAGGATG AAACAATTTG GAGAAGATAG AAGTTTGAAG TGGAAAAC TG GAAGACAGAA GTACGGGANG GCCTCCTTCA
TGTTTACAAT TTTAATTAAT TTTTTTTATT TTAGGTGTA TTTCTTACCA AACATTACCC A

SEQ ID NO:989: (Length of Sequence = 432 Nucleotides)

GTCTTGGGCTCTGCAACCT CTGCCTCTTG GGTTCAGCG ATTCCCCTGC CTTAGTACC CAAGTAGCTA AGATT 3
CATGCGCGCTCTGCTGGC TAATATATAT ATATATTTTT NTAGTTTITA GTAGAACGG GGTTCACCA CGTT 3
GCTGGTCTCG AACTCCAGAC CTCAAATGAT CTGCCCGCTT TGGCTTCCA AAGTCTGGG ATTACAGGCA TTAGCCACTG
TGCTTGCCA ACAATATATA TTAATAAGC ACACATACAA CAAAGTAGG TGTGGTAAG CTTACAAAAA TGTGACCACT
AGCTTGCTGA AACCTAATT TTTATTTGTT CATGGAACCT TCTAGACCGT AACTACACTG AATAATGAGA ATCTGCTGTA
ATCTTTTTTA GGTGCTGTAG ATGAGCCATT GG

SEQ ID NO:990: (Length of Sequence = 421 Nucleotides)

GGCAGCCCTA CTTTNTCTC TCATTAGCAG TTTCAGTCCA CAGCTGGGGT ATTAAATTTG TNAGTCATTG AAATTAATCC
CTGACTGAAT TGGAAAGGAA TTGTATTGTC AGTATTTGGA TTTATTTATT TTNCAGGTAT GGAATCTCG TGATTTTGAA

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AACATGAATG ATACCATTTT GCAGCAGCAT TGTAGATTTG TAGTATTTTA GATTGGTATC ACAGTGCACC TGAAAAGTAA
 GTTTCATTTT ACITTTTTNA TTGTTGTGA GACGGAGCTC ACTTTTGTCA CCCAGGCTGG AGTGCAGTGG TGTGATCTTG
 GCTCATGSCA GCCTCTGCCT CGCTGGGTTT AAGCGATTCT CCTGCCTCAG CCTCCCGAGT AGCTAGGACT ATAGATGCTC
 GCCACCATGC CCAGCTAATT T

SEQ ID NO:991: (Length of Sequence = 351 Nucleotides)

CCTCACTCCC CGCGCTGGCA CCTCAGGTTT ACAAGAAGAA CTAGGAAATA ATGCCGGCCA CGCGACCCCT GGAGAGGGGG
 CCGGCTAGAA CAGCGTTCTT AAGAATCCGC GCCACAGCAG GTCCCGCGAT GTTGGGGCCT TAGTGTCAITC GAGCTAGCCC
 CAATCCTCAA CCGGATCTTC AACTTCTGGT AGTCTTAACA GAAGTCTCGT ATTGAACCAG CCACINTGGC CAGGGAGAAG
 TAATCCTCTG ATAGTIGAGG TTCTTTNCTC TCCTCTGGAG CAGATAGTGG TGTCTCTCTC CCACAAAGCT CATGTTCTGC
 TGGAAGAAAT GGAGATGGCG CCTGGAAGG C

SEQ ID NO:992: (Length of Sequence = 406 Nucleotides)

CCAGAAAAAA TGGCCACTAC TACCACTTGG CTCAGAAATG CTAGTCTTTA TTTNCTGAAA TGTTTTATAT AGAAAAAATT
 TAATAATAAA TAGACATTCT TATATATTTT CTTACCATTT NAGATTGGGT TAAAAAGTAT GNGACITCC GGCCGGGTGC
 GGTGATTCAA GCCTGCAATC CCAGCACTTT GGGAGGCCGA GGCAGACAGA TCATGAGGTC GGGATCTGTG GCTAACACAG
 TGAAACCCCG TCTCTATTAA AANTACAAA GGAATTCCTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCGGCCACCG
 CGGTGGAGCT CCAGCTTTTG TTCCCTTTAA GTGAGGGGTT AATTTGAGC TTGGCGTAAA TCATGGTCAT AGCTGTTTCC
 CGTGTG

SEQ ID NO:993: (Length of Sequence = 381 Nucleotides)

ATGGAAGGAC CGTGCCGGGA CCCCAACGAG GCANTGCGGG AGTTTGCCAA GGAAATTGAC ATCTCCTGTG TCAAAATTGA
 GCAGGTGATC GGAGCAGGGG AGTTTNGCGA GGTCTGCAAT GGCCACCTGA AGCTGCCAGG CAAGAGAGAG ATCTTTNIGG
 CCATCAAGAC GCTCAAGTCG GGCTACACGG AGAAGCAGCG CCGGGACTTC CTGAGCGAAG CTCCATCATG GGCCAGTTCG
 ACCATCCCAA CGTCATCCAC CTGGAGGGTG TCGTGACCAA GAGCACACCT GTNATGATCA TCACCGAGTT CATTGAGAAT
 GGCTNCCTGG GACTCCCTTT CTTCGGCAA AACGATGGC AGTTTCACAG TTCATCCAGC T

SEQ ID NO:994: (Length of Sequence = 384 Nucleotides)

GTTCTTCCAG TTGGAAGGA TAAATCAAA TTCCCACTTT CTGGGGTGA TGCCCAAAC CTTCACAACT CAAGTGTCTT
 CCAAGTGCAA ATGTCAAAT GGGAGGAGGA AAGGGTTTAA AAATTAGAGA AAATGTATG CACTTACGGA CTTAAAAATC
 CGAAAAACAT AGTAAAAAGA CAAAAACA TAGCATTATG CTCTGAAATC ACAACCAAAG CCAAAATAAA AGGGACATTT
 TTCACCTAAA CTACCTAGAG GGATTTTTTG TTTAGTTTTT CCTTTTCTT TTTTTTTTCA TTTTCCAGTT AAGTCTATG
 TCTTTNGTGA AATTCCAATA CTTAACTGC AAGTCTGCAA TCGTCTCTGA AGTCAGTGAA ATTA

SEQ ID NO:995: (Length of Sequence = 386 Nucleotides)

ATAACTTTAA CAGAGGATTG GAATAATGAG GGATTGGCAA GGAAGCAGTA AAAGGGAACA CTAAAGTATA GAATAATAGC
 AAACAGAAGG AGCACCTTAC CCTAGGGCT GAGAAAGAGC ACAGGGAAGT CCTTTTTTNT TCCTGGACAG AGATCCAGAC
 GAGCTGGAGA AAGAAGTTGC TATGGTACTG CATCANTGGA ACTTGCTGGA AATCCACCT CAAGGGCACT AGGAAAACCT
 GTTCAGGGGA GCTGTGGAGG GAAATGGGGT TGGCAGGAAA GCTGTGGGC GCGGGGTGCT TCAGACTGCA GTGTATTGCA
 GGAGCTTGGG CACTGGGGAA GCTGTGTGCA CTGCAGGATC CTGCTGAGCC AGCACATCAG ATCAGG

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SEQ ID NO:996: (Length of Sequence = 307 Nucleotides)

GTGCGCCAAC TGCAAGAAGG AGGCCATCTT TTACTGCTGT TGGAACACCA GCTACTGTNA CTACCCCTGC CAGCAAGCCC
ACTGGCCTGA GCACATGAAG TCCTGCACCC AGTCAGCTAC TGCTCCTCAG CAGGAAGCGG ATGCTGAGGT GAACACAGAA
ACACTAAATA AGTCCTCCCA GGGGAGCTCC TCGAGCACAC AATCAGCACC TTCAGAAACG GCCAGCGCCT CCAAAGAGAA
GGAGACGTCA GCTGAGAAAA GCAAGGAGAG TGGCTCGACC CTTGACCTTT CTGGCTCCAG AGAGACG

SEQ ID NO:997: (Length of Sequence = 402 Nucleotides)

TCTGCACCTA ATACTGAGGG TGTGAAATCT TCCTCAGTAA TGCCAGCCCC TAGTACCACA TTAGCGCGGC AAGGCAGTCT
GGAGTCACCG TCGTCCGGTA CGNGCAGCAT GGGCAGTGCT GGTGGGCTAA GCGGCANAGC AGCCCTCTCT TCAATAAACC
CTCAGACTTA ACTACAGATG TTATAAGCTT AAGTCACTCG TTGGCCTCCA GCCCAGCATC GGTTCACTCT TTCACATCAG
GTGCTCTCGT GTGGGCTGCC AATATGAGCA GTTCCTCTGC AGGCAGCAAG GATACTCCGA GCTACCAGTC CATGACTAGC
CTCCACACGA GCTTCTGAGT CCATTGACCT CCCCCTCAGC CATCATGGCT CCTTTGINTT GGACTGACCA CAGGCACTCA
CG

SEQ ID NO:998: (Length of Sequence = 304 Nucleotides)

GCAGGCTGT GATTGTAAG ACTCACAACC ATGTGGAGAG GCCGAATCAC GCAGGAGAGC CACGCATTGG AGTACCCCTGG
CTCCAGCCCC CTTCGCCACC CCGINTTGAG CCAGAGAGCT ACAAGCAGGA ATCCAGTGC AGCTGCAAAT NATGGCCATC
GAGGAAGTCT GTGGAGAAGA GGCTGGGGGC TGTGGTGTG AGGGGGGCTA GGCTCAGCAC GGGACCACCT GACGACAGCT
CCCAGCCAGT CCATGCTGTC CAGGTGGCCA TCAAGCCAGG TTCCAGGGCC CATGGGTGCT TGCT

SEQ ID NO:999: (Length of Sequence = 321 Nucleotides)

AGAATGGTTT TGGAGCTCGA NATCTTCATG GGTAGACTT GCTGGTCAGA CCCAGGAGCA CCTGTGGCTC ACACCTTCTG
TNCCCTCCT GGCTGTGCA GAATGTAAAC AGCAGACTCA TACTCAATGG GCACTACAGG CCTTATCAGA CGTTTATAC
AAGCCTGGAT TGCTTAGTAG GGGGAATAAG CATCTCTGA GGGGGCTTTC CACTTAGATT GAGAATTTTA TTTGAAAAGA
ATCTGGTTTA AATGGCATG TGGTCCGAGG TAGCTGCTCT CCCCCTGAG AGCTGAGCCG AAATATAAGA ATAATATATT
T

SEQ ID NO:1000: (Length of Sequence = 253 Nucleotides)

CCCTAGAGGA TTTCGGTCT TINATCTGCC AGTGACCTGA ACCACGCAGA TTTTCAAGC AGGAGGGCCG ATTGGGCAAC
CACAGCTCCC GTGCTCTCTC TTTCAGTGC GCGGCTTTC CTCCGAGAAG GACTTTGAGG ACTACATTAG GTACGACAAC
TGCTCGTCCA GCGTCTGGC CGCCGTGGTC TCGAGCACC CCTCAACCA CAGCAAGGAG CCCCTGCCGN TGGCGGTGAG
ACGTGCGGCC GGG

SEQ ID NO:1001: (Length of Sequence = 164 Nucleotides)

AAACAGAGTA CTGGGATGTC ACTGTTGGAA AGTGCTCACA ATTTCTCATC TAAGCCGAAG TTGTCTGTC TCCTTCTTAC
CTTAACAGTT TCTCAGTCC TGAAGGCAGC TGCCAAAACC CCTTAAGCA AGCAGCACTC TTACCCACCA AAATCTATGA
CCTC

SEQ ID NO:1002: (Length of Sequence = 262 Nucleotides)

ATATCTTCCT GAGGGAAAGT GGTAGAGTA AAGAGGGCAT AGAGAGCGCA CTCATGCATT TACAACCTCAG AATTTTAAAA
AAAGTTTACA TTTTGTCAAT TGTACTTCAG ATGAATTTC TTATTAAAAG AAATAAGGCC ACAGAGGTAA ACTTAAGTCT

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CCTGTTTCCC AATGCCTACC CTCCTTCTTC TCCTTTCTTC TTTCTCTTC CTAGAGAAAT CCTGCCTTCC TTTCCCTTCC
CAGAGGCAAC TGGCATTATA AT

SEQ ID NO:1003: (Length of Sequence = 267 Nucleotides)

GGAAAGAGGA GCAGGTCTGG AGGTTTGTGG AACCCAGTCC CCTGCAGAAT CTGTAAAACC TAATAAATCA TGGTTGTGGC
CATTCTCAGC GTGGTGATTG TAATTAGACG ACCCCCGGGA AGCCAGACA CTCGGGGCCT GGAGTTCTTC CCCCTGCCTG
ACCTAGAAGC AGAACCGTTT TCAGCGNTCT GCCCTGTTGG CTTTAAGGCT TTGTCTTAAT TTAAGGAAA AGATCCTCCC
GGGTTTTATT TCTCTCTTC TTGAGTG

SEQ ID NO:1004: (Length of Sequence = 277 Nucleotides)

GGCTCCTAAA CACTTCTTC CTGAGATGTT AAGCAAAGTA ATCATCCTGT CACTAGATAG AAGCGATGAA GATAAAGAAA
AAGCAAGTNC TTTGATCAGT TTAATCAAAC AGGAAGGGAT AGCCACAAGT GACAACTTCA TGCAGGCTTT CCTGAATGTN
TTGGACCACT GTCCAAACT GGAGGTGAC ATCCCTTTGG TGAAATCCTA TTTCACAGC TTTGCAGCTC GTGCCATCAT
TTCAGAGCTN GGTGAGCATT TCAGAACTAG CTCAACC

SEQ ID NO:1005: (Length of Sequence = 271 Nucleotides)

GTTAGGTCAT TCACACATGG TGGAGACAGG AATCTACAGA CTAGGGATCA GCCCCAAGGC TATGATCTTT GTNCTGCGCC
GCTCTACCCC TGAGCAGACG GGCCAGAGGT CCAGAGAGGG CTGTGCTGGC AGAGTTCATA CTTTGATAAC TGAACCCTAG
AGTAAGCCTG CCGTGGGAAA TNCAGCTCA AGGGACTGAC AGGCATAATG CTCCTTGGGA GAGAAATGCC ACATCTGCAG
CGACACGNAT CCTTAACACT GTCCAGGAC T

SEQ ID NO:1006: (Length of Sequence = 336 Nucleotides)

TATTTTNCAG ATATGGATAA AAATTGCTTA GGAGAGTAAA GAGAGACAAA GTTGAAAGCA GGTTTATAGT AGGTGTGTGT
TTAGTGTGA TCCCTTTTTG CTCCAATAAT CAAAGTGATA AATATTGAAA ATTGATTCAT GCAGCATTC TTAATCCATT
CTAATTTTNA TATATGTCAA AAGTGCCATC TCCCAAACCTG TGCTATCCCC TTCAGGAGAA GAGACTCTGC TGAAGTTTAT
AAGGTGACA TATTGCCAGC TTCAATAATG TAAAGATGAA GTGTATACTG GAATTCCTAA TGCAAATAAC AACTCTTTTG
GGAAGTAACC CCGTTT

SEQ ID NO:1007: (Length of Sequence = 355 Nucleotides)

GGCAAGAAGG CGTCGGCGGC GCANTGCGGA TCCAGAAGGA CATAAACGGC AGCTTGTTCC TCCAGGCTGG TGGGCTTNGT
GCCCTCGGCC TTGGGATGCT TATCACAGTC CTTTGGGACC AGAACACTGG ATATCAGTNC AGCCTCTGGG CCAGCTTCAG
AGGCTGTTAG AGCATCATTC CTGCTGTGGC TGATGCTTCC TTTCTCAGT AAATCACAAA AGTCGTGTTC GCCATCCAGG
TTACCGAGTG ACTTAATTTT CAGAAAATTT AATATTGAGG TCATTATTGT ATGCATTTTC ACTGTTGCCA TTTTGTATC
CTGTAGGTA GTCTATGAA GTACCACTGG GGTCA

SEQ ID NO:1008: (Length of Sequence = 269 Nucleotides)

ATATTTAAAG AGAGCTTTGG TCAGTAAAAG TATAAANCT GAGCTTTGGT AAGGGTACAG TTTATAAGGC CTAGAGAACA
TCAAAACATT CATTTCATAT TGAATGTATA AATACCCACA TGTGAGAGCA CATGTTGATT CAGTTTGAGT ATGCTGCCT
TGTGCTCTT TAAAACCTTT CCAGCCTGGG TTATTTTCCC AAGCTTCTT TATAATTACA CCAGGGAAAG AGTTACCNGG
NATTAATCAA AACCAGACAG TGGACAATG

SEQ ID NO:1009: (Length of Sequence = 295 Nucleotides)

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GATAGCAGCA ACATACGTTT GTTTATTCAT TTGCTTACTT ACAACAAACG TTTATTTCATT ATTTATAATG CAACAAGCAT
 TAACCTAGGT GCTAAGGAGA GAAAAATGAG TAAGACACAG TTTCTTTCTT CAAGGAAATC ACAGTCTGTT GGCAGAGATA
 AGTAGTAATG GTGCCTAATA TAGGTAACAC TTGCTACCTG CTCGAAGAAC AAAGTTAAGC AAGTGATTAA GTTAAGCAAT
 GCTTAGAGGT AGAGGATGTA AGANTGGCCT TAAAAAATGT GTCTTCTGAG ATGAG

SEQ ID NO:1010: (Length of Sequence = 356 Nucleotides)

GTATTTCTCTC ATTTGTGCAA ATNAAATAGA AAAGGTAAAT NAGAACTCA AGAGGTTTGT TACCTACTGT CAATGGAGTG
 GGGAAAATGG GTGGAAAGAA GAAGGCAATA AGAAAAGAGT AACAGGAAAC GACAGTNGAC ACTTCTGAGT ATACCTTGTG
 GAATCTCTTT CACTCTTAGA ATCATAGTAA TAGANGANGA AAAAGAAGT CCCCAACTG AAAAGGATAG ACCACTGGAA
 CAACTTCAAG TGGTCTAATG TAGAAGCAAA TGGAGTCCCT CAAGGAAAGA AGAGAGGTTT TGAAAAGAAA AAAACATTG
 AAGAGTTAAC AGCGAAACAC TTTCCAACT TAAAGG

SEQ ID NO:1011: (Length of Sequence = 315 Nucleotides)

AGAGAGACAC AACTGTAATA GAGACACAGA GGAGTGGCAC ACAGAGACCA CCTCCAGCT GGAGACAGTC AGGAAGGACT
 GAGGGAGAGG GGACAGCCAG GGCTCCACAC CCAGGCAAGA ATGGGGGAGG GCTGTGGAA CAGAGAAGTC ATCAACACAC
 ACAGTTCAAA GTCTACCCTA GGCTAGGAGG GGGAGCAGGA AGAAGGGGCA GGGACGCAGG GGCCCGGCTT GCNAGCTCCC
 TGTTGGCCTC TNCTGCCCCC TGCTGGCTCC CNCTGCGGTG CTCAGGCAGG AAGAGAGGAG GCTGCTGTTT TTAGG

SEQ ID NO:1012: (Length of Sequence = 272 Nucleotides)

CCCAACTCTA TAGCCCTAGT CAACCACTAA TCTATACCTT GTNCTCTATA GATTTCCTA GTCTAGAAAT TTTGTATAAA
 TGAAATGCAT GCACTTGAAC TTTTGTATC TGGCTTGCTT TTCCATTAG CATAAAGTTT TAAAGGTCCN CATATGTTGC
 TGCATGIGTG CATTTCTTTT TGTGNACTGC NATATTACAT TGTATGGGAT ATACCATTTT GCCATATTIN GTTAAATCCA
 TTCATCCAGT TGGTGGGACA GCAGGTTATT TC

SEQ ID NO:1013: (Length of Sequence = 252 Nucleotides)

TTTGTTAGTG TTTTCTACAC TACACTCAAG TTCATTGAGC ATGTTCATTTT AACAAATGT GACGTGTCAA CTTCAAAAAT
 TAAACAAACC AGCNAACAC AACACTTGNC ACTACAAAGG AACTTGTITT ATTCTCAACC TTCTATGATA GCTAAACTTC
 TCTGNAATTT NGTTCCTCCA CACATCCAC ATCTGGGCTC AATTTCAGC TTCTGTINTT CTGTTTTATT TCATCCAAAA
 TGTATTTTTA AT

SEQ ID NO:1014: (Length of Sequence = 210 Nucleotides)

GGGATACACT GACAGTAATG TGAAGCGCCA CACTTGCAGA TTTCAGGCC AGCAGGTCCT GGNCAAGTGC CATTCCACCC
 GGAACITTTA ACCCAAGCGG TGGGAAGGA AAGCCAAAAC TCCAAGCTGG CACTTTTTTG GGGTCTGGG CCATGACACT
 TCTTAGGCCT TCTGCTGCTG AACTTTTACA GGGACAAAAG GTACCCACG

SEQ ID NO:1015: (Length of Sequence = 222 Nucleotides)

GGNAAGAAAG GTTTCTCAGA GGACAGCCTT ATTAATTTCT CAGAGGATGA ATTTGNACAA TGGCAGCACG TTGCAGTCAC
 AACTTCTTAA GGTGCTTCAG AGGCTGATTG TTCTAGNAA CACAGAGTAA TGAAGTATC CTGAAGAGCA ATGAAACAGG
 TTTGAATTT TTTGTATCT GNACTAGNA ACACATCAGT CCCCATCAAC CCATGGACTT CT

SEQ ID NO:1016: (Length of Sequence = 236 Nucleotides)

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GAATAAACTG GTTTGGAACC AGAAAAGTAC AAAAAAGAAC AGCTAGAGGT ACATAGACAC AGGACAATTA ATCAATTGTTG
GAAAAAAGAA AGNACTTACT TTCTCCATTG CTGCCTGAAT TGTTTCCCAA TCTGCCTTGA AATGCCACTT TTGGCCAATA
TTTTTNCAAA AATTGACCA AAAAAGAAAA AGCACTNAAT TTCCCTTTTT ATACAAAAT GNTTAAGTAG GCAAGT

SEQ ID NO:1017: (Length of Sequence = 259 Nucleotides)

GCTTCCCTAG ATTTTCCCT AATTTTGGAC CTATGTGGAC AAAAAAATA ATCTAGTCCA AGCTTTCCT ACCTTCTTTT
TTTATTGCCC TTCTGCTTCT GNGTTCCACA TGGGAACITG AAGTGGTTTA TAAGAATGCC ATGCTGTGCA AATAGTAAAA
ATGAATTINC TGATTTTAA AAAAGCCCTC AGGAACGGCA TATGTATANG GTATGTATAT GAAAAAANGT GTTNAGGAAT
GCAGGAGGGA AACTAGGCG

SEQ ID NO:1018: (Length of Sequence = 354 Nucleotides)

CTGGAGGAGG AGAAGAAGCA TCTGGAGTTT ATGAATCAGC TAAAAAATA TGATGACGAC ATTTCCCCAT CCGAGGACAA
AGACACTGAT TCTACCAAAG AGCCTCTGGA TGACCTTTTC CCCAATGATG AAGACGACCC AGGGCAAGGA ATCCAGCAGC
AGCACAGCAG TGCAGCCGCG GCTNCCCAGC AGGGCGGCTA CGAGATCCCC GCGCGGCTGC GGACGCTCCA CAACCTGGTG
ATCCAGTACG NCTCGCAGGG GCGCTACGAG GTAGCTGTGC CCTTNINCAA GCAGGCCCTG GAGGACCTGG AGAAGACTTC
AGGACACGAC CCACCGGAC GTGGCCACCA TGCT

SEQ ID NO:1019: (Length of Sequence = 393 Nucleotides)

GATGACCGAT TTGGCCATGG AAGACTTATC TTCATGGCAC AGAGAGNYTG TSCAGAGATG AGTCAGACTC AGGGGCTGAG
TAACAGCAGA GCAGAGAGTG CAGAAGTGA CGCTCAGAAG CGAGTTTATG TGTGTITTY CCTCIATCTG CTGGCTGIGG
CTGGTACTGC AACCTATCCC AAAGTAACAG CCTAGTCAAT GAGGTATATG CTTCAGATCT GGCAAACTCT CTCTGCACAT
AAAAGTGTTA TTCTTAGTTC TCTGAAAGAC CCCACATCT TTGAAGTGTA AACTAAGAGC TACATTTTCC CTMTTACTAC
ATCTCCCTTA AAAGGAAAGC ACTACAAGAG CTMTAAAATA GCAAGCTTCC CTATCTAAG GGGAAANAGT CTT

SEQ ID NO:1020: (Length of Sequence = 403 Nucleotides)

CTGAGGAAGA GAGGTGAAGT GGCATCTACC CAAACACCT GTGTACTGGT TAATAAGGTC GGTAGTTCCC ATTAATGAGC
TTGATGAAGG ATGGCACCTG ACAGGGCCTT AAATGANCTG ATGGAGTGAA TGTNACCAGT GTGAATTAAA TTTCCTTTAT
ATATAATAAA TAGCTGTGCT TACACATTTT CAGATTINCT TTGTACGCTA TGGACATGGA ACAGCGGGAC TATGATTCTA
GAACAGCACT CCATGTAGCT GCTGCAGAGG GTAATACAGG AACTACTCCT ATCTATTTCC TTCCAGATT TAATTTCTAC
TTAGTACTAA AATCTGCTCT TTTTPTGGGG GTGGGACGGT ATAGGTCATG TTGAAGTTGT TAAATTTTTT NCTGGAAGCC
TGC

SEQ ID NO:1021: (Length of Sequence = 452 Nucleotides)

ATCGCAACCT GGCAGGGGIG TGGGGTTTGC TGGGGGCCTC TGTGGGGCCA TGATCTGAGG AGGGTATGTG GGGGGCGGGA
GCTCAGCACA TTCCATGGCC TAGAGGGGCC ACACAGAGGC CCCAGTGGGA CCCATGGCGT GGAGGCAGGT ATGGGGAGTT
KTGGGGAGAT CCCAGGGTGG TCTGGGGCCT GGAACCGGCC ATTKGGAGGC CCCAGCAGTT TCAKTGCCCA GGGCCTCCCT
GCAGAGCCAT GCATGGCAGA AGAAGTGTGT AGCATGAGCT GGTACACGCC CATGCCCATC AAGAAAGGCA GTGTGGTTCAT
GCGTGTGGAC ATCAGCAGCA ATGGCCTGGG GACCTTCATT CCAGATAAAA GGTTCAGAT GATATCAACG GCTTCCTGAA
GAGAGACCOG GGCAATAACA TCCATTTCANT TGGGAGAGGA GGTGAGGGAT NT

SEQ ID NO:1022: (Length of Sequence = 413 Nucleotides)

AGCAACAGAA GAAAGGGCCA CATATATGCA AATGCCTGGT CACTATATCT GGCCCTGAAG AAGGAAGGAG TTTGCAGGGC
TCAGGAGACT GGAAATTTTT NCCAGGAGCT AGGAACGAGG GGTGGGAGA CGTGGTCAA AGGGTACAAA GTCCCAGTTA
TGCAGGATGA ATAAGTTCTG AAGACCTAAC ATACAGCCCA GTGACCATAG TGAATAACAC TGAATGANCA GTATACTCGA
AATTGTCTAA CAGAAGAGAT CTTAAGTGT CTCATAACAC ACAAACATA GCAACTGTAT GAGGTGATGG GTATATTAAAT
TAGCCTGACT GTGGTTATAC ATTTTATCAA AATGTCACAC TGTGGCTGAG TNCAGAGGCT CATACCTATA ATCCCCANCA
TTTTTGGGGA GCT

SEQ ID NO:1023: (Length of Sequence = 379 Nucleotides)

TCAAGTCTCA AAACTTTAAA AGACAGTAGA TATTTGTGGT TTTCTAGCTA AATGAGGGCC AAGATTGGNC TTTTCAACT
AAATTGAATC ATGTAGTATA TCTGATTCA TAGCTTTCTG GGGGAAAAGG GAGGATTGA ATTAGCAGCA GTGCAGGTCA
GGAGCAGTAA AGAAGACAGT AGGAGGAGTC CAACTACAGA TGTGAATGAN CAGCCTCAGA GGAACACATG AGAAGGTGAC
CTGCTGTTTA TCAGGAAGGC GGGGCTTTCT CTCTAAGATA CAAACCAAT AGGAATCGTC AAATAGTTCA AATTATCCGG
GGGAAAAGC CTGAGCAATG ATCCCTCTGG AAAACAAAGC AGTTCTCAGG CAGCACCTT

SEQ ID NO:1024: (Length of Sequence = 320 Nucleotides)

AGTCTACAGG AACAAAGAAA TCTAAGATGG CTGCTCAGCC TTGAAATGTA CATGTTTTGC AGCAAAGTTG TTGAAGAACC
TTCCGTGGC ACAGATTGTC CTTTTTCACA AGCATACAGA AGCCTCCTTC CGCCAGGNC TCTTCCGTG CATCCTTGCA
AATGGCTCCC ATTTGACACA TTCCTAAGTC TAAGAGATA CCACTAGGGC AGCTTGTAACA GTTCTTGAAT CCTGGGCCAT
TGCACGTCAA ACAACTGATA TCACATTTTT TTGCAGGATG TGTATCCATT CTCTGAAGAG TGGTCAAAGT AATAGCTGAT

SEQ ID NO:1025: (Length of Sequence = 368 Nucleotides)

TATTTAATCA TTCTTTTCTT TGCCGTAAGA CTTAAACTA AGAAGATTAT TCGAATGGTG AATTAACITG TTGAAGAGAC
TATTCCAAAG GGATAGAATG AGACTAATTY CTGACTATGT TTTGCTAGTG ATGGGTGGAT GGGAACAAAC ATTACAAGAA
ATAGCATAAT GAATGTAGAA AATATTTTCTG TTTGGAGATG TGCATGANIT AGTTTCCTAG GTTTGCCACA ACAAGCATC
CCAACTGGT GGCTTAAAAA ACAGAAATTT GTTTTCATGGT TCTTGAGCCT AGAAGGTCAA AATCAAGGTG TTGGCAGGAC
CATGCTCTCT CTGAAACTCT AAGGGAGAAG CGTTCTTTGT TTCINCT

SEQ ID NO:1026: (Length of Sequence = 379 Nucleotides)

GGTGCAGGTG CATAAGGAA GGACCATGTG GGCTCAGAGC AAGGGGGCGG CCATCTCCTA GCCAAGGAGG GAGGGCTCCA
GGGACCCCAA TCCTGCTGGC ACCTAGGCCT TGANCTTCCA GCCTCCAGAC TGGGAGAAAA TAACGTCTCA TTGTTAAAGC
CCCCAGCAA TGANTACAGA ACCTAGGAAG GGGCAATGAA TGANTGATAG GTGGAAGGGC TAAGAAGAAA AGAGGAGGGA
GAGGAAAGAG ACGTGCTCAG ATCTGTCTCT NCTGGACATC CGATCCCAGG CTGTCTCTTC AGTGGGNCCA AGTCCAACATA
GCAGTCAGCT CAGAAATAAT CCTINAGGCA TCGAAGCTTT CACAAAGGAG GNCACAAA

SEQ ID NO:1027: (Length of Sequence = 411 Nucleotides)

GCCCTTGGCA CCTAGAAGCA GCCAGGAGGG AAGTACTGAC CATTTAAAG TGGCAGATCT CCGGGCCCA TTTCTGCAGC
CTTCATTCTG CAACTCCAGG GAGGGTATTT TTNATTGTG GGTCAAAAA ATCTGTATAT ACAGTCTATG TGTTTAGAAT
TTGTGTTGTA AGTAACTAC AGCTTTGAGT TGGAAAGAAG TCACGGGTG TAAACCAATT TGGATTTTTT TAAACAAAA
GTATTAATAA TCTGGAAGAC AGINTTGCCC AGGTCAGGAG TGTTTTCTTG GTGGTTCCAG CCCCCATCA TTGAACGTG
TCTGGGCTCA GTCAGACACA GACATTCATC TGTGCTGAC CAAATCAGG GCTTTCCAC CTGTGGGGGA GGGCACAGTT
AGGATGTTTT T

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SEQ ID NO:1028: (Length of Sequence = 401 Nucleotides)

GATCATCATG CAGCTCAACT TTCGTGTTGA TTCCATGCTA AGCAAGCTAA CCTATCCTG CATTGTTAGC ACTAGGCACC
 CAGCTGCCAC CTCCTCATCC TGCTGCCCTT AGGCCACATG GGAGCAGTCC ATGCATGACA GCCTCTATCC TACAAGGCCT
 ATGAGTATGG ATTGGGGGGG CCAAAAGGAA AAAGCTCCAT GTGCCCTCTT GTCTGCGTGG GTCAGAAGAG TTGTGCACGC
 AGATTAGCAG GCCAAGGTCT GAGCCACAGC AGCATTTTTA TTTAGATTG TGATAACTGT TTATATGTGT TGAAACCAAA
 NTGNCATCTT TTTAAAGCTT ATCCATAAAA AAAAATAGAT GTCTTTTATA GTGGGAAAAC ACATGGGGGA AAAAATCATC
 TATTTTGATG CAGCATTGTA TAATGNTTAA ACACCTCACA CCTCACTCTT

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GAAAAATGCC AATTGGATGC CCTTAGGTGG AGGTGAGAAA ATGGCATCCT TGCCTTCTTC TCAATATGAA ACATTAACTA
 GTTGACAAAT TTATCCTTGT AGAAATGAAA ATCTATTTAA TCAGGGACCA GAAATGGCTG AGGAGATAAA TGCATCATT
 CAAAATTCTG CTTTGAATC CTGGACATTA CAAGGGGGTA AATGCAGCAT GACTTTTGT TAACCACATT CCAAAATGTG
 GAACATTCT TTTAGAAATG AAAATATTTC AAGGCTGATG TATTTTAAGN CTACACATTA TCAGGNCAT ACATTGAGAG
 TTCGCTTAAT TAAAGGTGT TGGGCATCAA ATTATGTTA GTAGGTACT ATTCTTAAC AACTCAAGN TGCTTTAATG
 G

SEQ ID NO:1030: (Length of Sequence = 340 Nucleotides)

TTCCCGCTTG AITCCAAGAA CCTCTCGAT TTTAATTIN ATTTTAAAG AGGGAGACGA TGGACTGAGC TGATCCGCAC
 CATGGAGTCT CGGGCTTAC TGAGAACATT CTGTTTGANC TTCGGTCTCG GAGCAGTTTG GGGGCTTGGT GTGGACCTT
 CCTACAGAT TGACGTCTTA ACAGAGTTAG AACTTGGGGA GTCCACGACC GGAGTGGCTC AGGTCCCGGG GCTGCATAAT
 GGGACGAAAG CCTTNTCTT TCAAGATACT CCCAGAAGCA TAAAGCATC CACTGCTACA GCTGAACAGT TTTTTCAGAA
 GCTTGAGAAA TAAACATGA

SEQ ID NO:1031: (Length of Sequence = 452 Nucleotides)

CCAGGGGAAG GNTCCCAAGG GACGGGCTGG CAGCCGGACA CATGGACAAA CTGATGGACC CAGGACTGAT CAGACAAAGC
 TCTCATTAGC AGAATGTGGG CACCTGCACC CAGGGCCCAT ACCAGTCCC TGAGAGCAA AAAGCTTAAA GTTCTCCCTC
 CAGGCCCAGG GCCAAGAGCG CCTCACAAAG GGCTGCTGCC TTGAACTTGG CCTGGGGAAA TNAGACCCTG AGCGGACCAC
 AGCCCTTGAG CCTTGGGAGG AGCAGCCCAT CCAGNAGCAG CACAGCTNCC GAAACTTGAG GAAGAAGACT TCCACCCATA
 GCACAAGAAC TGCAAATACT GTCTNGNCA GAGCCACCAG AGGCCTTAGG CTCTTAGGA CACCGATATC CCCCATTAT
 GGGGTGNGGA GGGAGTGGCT TTTTAGGCA AGGGACTTTG TTAGAGAGGT TT

SEQ ID NO:1032: (Length of Sequence = 411 Nucleotides)

GAATCTACAG AACATAAAT TATACTGAGT TGTGCTGTAC TGGTTGTGA GAACATCAGT GTATTAAGGA GAATGGTAGT
 TTAATTGAA TATTTAAAGA AAGTAATTG AATGGTCTA GTACTAGGGC CATTATTAC TAGTAACATA GATTAGTGAC
 TTCAACTGGG TGCTCTATT ATCTGATTG TCTGAAGTGA AAACGTGTA GGTCCTCTT TAAAATGTAT TTGGAAACAC
 CATAGTTAGG GTAAATNCAA TGTACAATT CACTCTTGA TATTATTNC TTAGCCAAAT TTATGAATTC TAAGTTAGGC
 CAAATTGAAG GTTTGGAGTT TTACATTGT GNGAGTCTA AATTCATCG TTTGGCAAGC ACCAAGNCA TGGGGAAAGA
 ATCTGGTATT T

SEQ ID NO:1033: (Length of Sequence = 372 Nucleotides)

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AGTGGCTTAC AAAACACAAA TTTATTATCT TACCATTCTG TGAGTCAAAA TTCCAAAATA GGTGTCACTA GGCTAAAATG
 AAGGACTGCA TTTTNNCTG CAGGCTCCAG GAGAGATCTA TGTCTTACTC TTTCGGCTT CTAAAGGCTG CCCACATTCC
 TCGACTAGTG GCGTCCCTCC TTCATCTCTA AACCCAGCAA CAACAGGTTG AGTCCTCATG TCACATCTTT NTTACCTTTC
 TGTCATCTCA TCTCGCTGAC TGCTGCTGGG AAAAATTCTC CACTTTTAAG GGCTATCATG ATTAGACTAT GCCCACTAGA
 TAATACAAGA TCTCAGATCC CTTAACTTCC ATCACATCTG CAAAAGTCGC TT

SEQ ID NO:1034: (Length of Sequence = 320 Nucleotides)

CGCGCCGCGA CGGAAGCCCT CAACCGGCAA ATCOGCGAGG AGGTGGCGAG TGCACTGAGC AGCTCCTACA GGAATGANTT
 CAGGGCATGG ACGGACATCA AGCTGTGNA ACCAATAAAG GCCAAGCCCC AGTACAAGCC CCCAGATGAT AAGATGGTTC
 ATGAGACCAG CTACAGTGCT CAGTTCAAAG GAGAGGCCAG CAAGCCAACA ACAGCTGACA ATAAGGTCAT TGATGCGAGA
 AGAWTACGCA GCCTCTACAG CGAACCCCTC AAGGAACCCC CAAAGGTGGA AAAACCTAGT KTTTCAGAGTT TCAAACCAAA

SEQ ID NO:1035: (Length of Sequence = 375 Nucleotides)

TTTTTTTTTT TCAGTGGAAA ATAACCTTNA TTGAGACCCC ACCAAGTCA AAANCTGTNC CTGGCATTAA GCTCCTTCTN
 CCTTTGCAAT TCGGTCTTTC TTCAGTGGTC CCATGAATGC TTTCTNCTCC TCCATGGTCT GGAAGCGGCC ATGGCCAAAC
 TTGGAGGTGG TGTCAATGAA CTTAAGGTCA ATCTTCTCCA GAGCCCGCCG CTTCTCTGTC ACCAGCAAGG ACTTGCGGAG
 GGTGAGCACC CGCTTCTTGG TTCCACCAC ACAGCCTTTC AGCATGACAA AGTCATTGGT CACTTCACCA TAGTGGACAA
 AGCCACCCAG AGGGTTGATG CTCTGTIMAG ATAGGTCATA GTCAGTGGAG GCATT

SEQ ID NO:1036: (Length of Sequence = 304 Nucleotides)

CTCTATGTCT TCTTCTTTTT GCTTCTCTC AAGTAGAG TGACTTTTTT GAAGGTAGC TTCTTCTAAG AGTGCATGC
 TATTNCTGGC TCTTACAATA GCCTCATATC TCNATTINC TAATTCAATG CACTTTGCTT GTAGCTCTCT GGTCTGTTTT
 TCCAGATGIG TATTINCEN TCINAATTGG TTGGCTTCTT GGATTGTAC ACATAATCTT ATTTCTAATT GTTTTATACT
 AGACTGTAAAC TGCTGTAAAC GGCTATCTGA TGCTTCTCT CTNCAATGG CAGACACCAC ATCC

SEQ ID NO:1037: (Length of Sequence = 341 Nucleotides)

CTATGAGGAC CAGCAATTAG ATTTTATAGC AGTACTTCCC ATTAAAGTGA ATAACCAAAA TCACTTTAAG GTCAAGATCT
 TAGTCAATAC ATTATGTAAA ANCATATACA ACAGACAATA CACCAGAAAC TAAATCTTTT GCAACCTTTT AAACCTATGA
 TGAAAAACAT TAATGTCAGC TCTAAAATGT ATTAAGCAGT TTTTACAAAA AAAATGTATA GAATACAGGA GCCAAAAACAT
 TTANCAATTA CCTAACTTG CTGACACAGA NTACTATTAA TAAATAATAC TGATCANNNG AAAGTAATCA ATTTGAAAGT
 GGTGGGGGTA GAAGGACAAC A

SEQ ID NO:1038: (Length of Sequence = 281 Nucleotides)

GGAGGCTGAG GTGAGAGGNT CCCTTGGGCC CAGGAAGTCA AGGTTCAGC AAACAGTGAT TGCACCACTA CACTCCAGCC
 TGGGCAACAC AGCAAGATCC TGTCTCAAAA AAAAAAAAAA ATATCAGTAT TGTTTTATTA ATTGTAACAA ACACACTAAA
 TAAATGTAAG ATGCCAACAC TAGGGGAAAT AGGATNTGGN GTAAATGGGA ACTCTCTGNA TCATTTTTC AACTTTCTG
 TACATCTTAA ACTATTTTAA ATGNTTCTAC AAAAGTTAAC A

SEQ ID NO:1039: (Length of Sequence = 246 Nucleotides)

CCAATGATGG CAAACATGAG GATGGCAAAG AAGAGAAGCA GCCCAATCTG CAGGAGTGGG ACCATGGCCT TCATGATGGA
 CTTGAGCACC ACCTGCAAAC CTGGGGCCAG AACAGGGCAG GTCAGGAAGC AACGTGGGCA GGGTAGGGCA AGGAATTTNG

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TGGGGGCAGG GACAGANCAG CAGGAACCTA GCAGGGACAG CAAGGTGCTA AGCAGTINAGT GCTTTCAAGG GCAAAGGTTA
GAGCTG

SEQ ID NO:1040: (Length of Sequence = 399 Nucleotides)

GAGGTCAAGA AGAGCTTAAG AAAATATAGG AGATACTACA GCATGTTTGG TTCATGACCG GAATGATTTA GTAAGAAGGA
AAAGCCAATA ATGTAAGAAA GCGGATTGCA GGAGCAAAGA CTTTAAGGAA TAAAAAGGNC AAAATTGTTT GTTTCTCAGG
GAAGTAATGA CAGGGGCTGA GCAGGAGCCA GGAAACCCAG CTTTITAGCTT CAGNTCTGCC TGACATTTAT TGGTCATGTG
GCTCTGGGTG TATTCTCACT TCTCTCCCT AAATAGCAAG AAGGAAAAGC CTCITGGAGC CTGCTGTCTC TGCTTCTTTC
TGTACAAATGG TTAATGTTTCT GATCCGCTTA GCTGGTTAAT TATAGAATCA CCCINGCTGG GGTCTTTTGG GGA CTGGCC

SEQ ID NO:1041: (Length of Sequence = 324 Nucleotides)

CCATAAACAG TCCGTCAGTG ACAAATGTTG TTACGCAGCA CATTTTATGC AGTGTGTGAC CATAACGAT ACACAGAGGA
AATTCAGGGC TTCTAGGAAA CCTCTAAGG CCTCATCTCC CTAAGGGCAC CTGATGAGCC ATTCTCACC CCTGCACTGC
ACCAGNCTC CAACACCACC ACCAAGGCTA ACCGCTGTGC ACTCTGGGCC CTGGGTCTGC AGTACCTGGC TCCCAAGCAC
ACCAGCATCT GAAAACTTGN CATCCTTGCC GAINITNCGG GGAGTATTGG TTGATTGCAG TGACAAATCG GCAGAAGTTC
CGGG

SEQ ID NO:1042: (Length of Sequence = 212 Nucleotides)

ATCTGTTTCT CAGAGATGAC ACTGCCAACA ATCACAGATT TGCATACAAT ACAGTTATGT ATTGGCTATT CACAATTTAC
AGTAGTGTTC TTCCCTCTGA AAAATATAAG TNCAAAAGCT AAGTAAACAA TGNGGTACTG CCATTGGGN TTTTITACAT
GGNCTTAGCT TAAAGAACTG GTCITTAGCA AATATTCAAC AGNCAACCT GA

SEQ ID NO:1043: (Length of Sequence = 329 Nucleotides)

ACTTGGAGAA AGAAAAATTA GAGAATTCCA GATCCTTAGA ATGCAGATCA GATCCAGAAT CTCCTATCAA AAAACAAGT
TTATCTCCTA CTCTAAACT TGGATACTCA TATAGTAGAG ATCTAGACCT TGCTAAGAAA AAACATGCTT CCTGAGGCA
GACGGAGCTA TTCCAGATGC TGATAGANCC ACTTTAAATC ATGCAGATCA TTTTCATCAA ANTAGINCAG CAGCAAGATG
AAGAGCGACG TCGGCAGCTG AGAGAGAGAG CTCGTCAGCT AATAGCAGAN GCTCGATCTG GAGTNAAGAT NTCAGAACTT
CCCAGCTAT

SEQ ID NO:1044: (Length of Sequence = 285 Nucleotides)

GTGAAGCTG TTTTATTTT ACACCTTCT GTTTTAAAC ATAGGGACTG ACAGGGAGAC CCAGGGCTGC AATCTGGGTG
GTGCTACATT TGTAGACAAG GACAACCTGC TGTATTTTAA CCCAGAAACA TTAGAAAGTT TGTCCITGAA CTCTGGCTC
AGATTIAGAT GCATCTTTGA AGTGCTGATA TTGGCTTAT CTGAAGCTTT GGGATTATCA TTINCTAGTT ATGAAGGGAA
TGAAAGTGTT CATAACATTT TTGCAGGTGG AAGGTAAAGT TGTG

SEQ ID NO:1045: (Length of Sequence = 317 Nucleotides)

TCGGTFACTG TAGTATTGTA GTATAGTTTG AAGTCAGCTA GGTGATGCC TCCAGCTTG TNCITTTTGC TCAGGATTGT
CTTGGCTATA CAAGGTCTTC TTGATCCCA TATGAAATTT AAAGTAGTTT TTNCIAATTC TGTGAAGAAT GTCAATGGTA
GTTTCATGGG TATAGTATTG AATCTATAAA TNAITTTGGG CAGTACGNC ATTTTCATGA TATTGATTCT NCCTATCCAT
GATGATGGAA TCITTTTCCA TTTGTTTGGG NCTTCTCTTA TTTCTTGGAG CAGTGGGTTT GTAGTTCTTG GACAAGA

SEQ ID NO:1046: (Length of Sequence = 316 Nucleotides)

CCAGGTGCAA TCTCGGCTCA CTGCGACCTC TGCCTCCGCG TAGTGGGACT CCAGCTGTGC ACCACCCAGT CAGCCCCACG
CCCACCCTGC CAGGCGTGTG CACGGTTCAG CGTCACTTTA CAGATGAGGA AACTNAGTCT TTGGGAAGCT GACAAGGTGC
CTGACACAGG CCAGGGCAGG GNCACCCCTC ATGGGCTGTG CTGCAGCCTC TGCCTCGTGG GTCACGGCAC CCCATCTACG
AGGNGCCCCCT CAAGGATGCG CCGTCGAGTN CCCGGGGCCC TTGGCATGTN CCTGGCAGAG AAGGCAGCTC AGGGGT

SEQ ID NO:1047: (Length of Sequence = 261 Nucleotides)

CTTCCTCAAA CTCGGGTTC AGCTGGGTCT CAAACTCAGG CTCCAACCTGG GTCTCAAACCT CGGGCTCCAC CTTGGTCCCA
AACTCGGGCT CCACCTCGGT CCCAACTCT GTCAACCACT CTCTNTAGGT CTCANTCTCC GACTCCTCCC AGCCAGCGGT
GGTGGCGGT ATNAGGCCCC AGGGCTCTAT GGTAGTGCTC AGGGTGTGTG GCAGGGGCAG GGGGCAGCGT GGGAGGCACA
GTGTNGGGGG CCTAGGGTGG T

SEQ ID NO:1048: (Length of Sequence = 390 Nucleotides)

GAGAACAAAG AGAATGGAGG CCACATACAA TGGAGTAACA GAAGCTTTGC CTGTAGCTCA AGAACCAAGC CGAGAATCCA
CACTCCTGA TTCACAGTTC AGTATTTTCG GCCACTTTAC TCAAATATTT TTATAAATTA TTTTAAATC GGCAAAATAT
TTAAATTTCA TCCATTAAAT TTAAATTTCT AGATGCCCTA GTGGCATCCA GAACACATAT TINGGGGAAA ATATTCTAAT
TTTTTTAAAC AGAAAAAGCT AGGNNCAGAT GATGCATTAA AAAAGTAGAA CACAGAGCTC TTAATTTAGG AATGATCAAA
ATAGGGTTGA TTCAACTATT ACCTTCTCCT AGGGATTATG GATCAACCCC TAGCAGCAGN CAAAGTCACA

SEQ ID NO:1049: (Length of Sequence = 335 Nucleotides)

AAACTCACAA GTAAAATAAT GCATATTTAA GGGAAATATT ATACAGACTT TTTACACAG AAGTACATAA TANGATTTTT
TAAATCTAT TGCCATTCAT TTATTTTTCG AAAAAACGT ATAAATATGT CACCAGCTTT NCTTAACTTA AAAAACTTAA
ATAAAGACA CCAGATGAAA ACTACCTTT GCTGCCATTT TTTTAAAGT TTTTGTAG GGGTTTTTTA TTTTGGGT
TTTTTNCIT TTCTGCTTA GAATGGGTT TCTAGGGAAG AAAAGCCCT GCATTAAAA CAGNCCATTT AAAAAAAA
TTCAAAGTTC TGGAT

SEQ ID NO:1050: (Length of Sequence = 265 Nucleotides)

AAAGGGAGGG AGGGAGGGAT GTGAAAATA TGCAAGATAA ATTAAATNCT TAGTTAAAAA AAAAAAAG TTTCACCAAC
TGINTCCAT TACTGAGAAG CCCCACACT GCCCCA:CTGT GCATATTCCT AGTATTCAT CCATGTCCTG CTCGTGTGTG
CTGCCCTACA AAAANCCCT CCCGGGGGGG AAAAAAANC AAAAAANCGG TGTAGTGIGA ACTGCTGAAG AACTTAAATG
TTCAAGNGCA TCTTTAAAGT CTAGG

SEQ ID NO:1051: (Length of Sequence = 298 Nucleotides)

ATTTCTAAAA TGCTCTCAAA TACTAATATT ATACATTCTC CCATTTATCC TCAAAAACC CATGAGACTG GTGATGTAAT
TCTGTGTTC ATTTACAGC TGTGGCAGTC AGTCTAAAGA CCAAGTGATT TGCTCAAAGT CATGGAACAC TTAAATGGCA
GAGCTAAGGC TTAAACCCAG AATTAAAAA TTTTTTINAG CTCTINGTT TTNCCATTAT ACCAGTTTGG CCCTTCATTT
TATTCATGGG TTAAATTAAT TTATGGTAAC AAAGGGCCCC TGGTCACTTT GGACATTT

SEQ ID NO:1052: (Length of Sequence = 359 Nucleotides)

AAGGCAACG TGGTACATCA TGACCCATG GGAATGACTC ATGCCAGCCA TAAAAAGAT GAGAATTCG TCCAGAATTG
GTCTCTCCG GTGGGTCTT GGTCTCGCTG ACTTCAAAAA TGAAAGCCAT GAACCTCGT GGTGAGTGT AACAGTTCCT
TCAAAGATGG TGTGTCCGA GTTNTTCCC TTNCAGAAATG TTCAAATGT TATCCCAAGT TTCTTCCCT CTGGTGGGT

CGTGGTCTTG CCTGATINTC AGGAGTGGGA GCCGCAGAAC CTTTGCCTGT GAAGTGTTAA CAGNNTCTTT AAAAGGTGGG
TGGCATCTGG GAGTTTGTTC CATTTCTCTC CCAGTGGGG

SEQ ID NO:1053: (Length of Sequence = 195 Nucleotides)

GTTGCAAATT TGTATTCCCA GTGTTGGCAG GTGGGGTCCC AATGGGAGCT ATTTAGGTCA TGNAAGGTGG ATCCCTCATG
AAATAGATTA ATGGCCCTCC CTTCAGGGT AAGTGNAAAT NCTCACNCTG TTAAGTTCCC ACTGCAAGAA GTTGGTTGAC
CAAAAAGAAG CCNCGTGCCT CCCCCTAACC CTTGA

SEQ ID NO:1054: (Length of Sequence = 319 Nucleotides)

ACAAAACCAG ATGTTCTCAC AAGAGCCCCT GCTTGCAGAT CACTTACATA GTTTTTGGGG AAGCCAAGAT CGAAGATTTA
TCCCAGCAAG TCACAAC TAG CAGCTGCTGC AGAAATTCAA AGTTCAAGGT GCAAGCTGTC TCAAACATTG CAAGCAAAAC
ACACAGTACT TCCAAGTGT ACAAGAGGAG GAGTGCAAGA GGAAGAGGTT CGCTGAAACA GGTGTTAGTA AGTTNAAGGT
ACATAGANIT GTTTCATGTT CACAAGCAAA TGTTGTOGAG GGNCAAAGGN CAGTCCGAG CCTGTAAAGT AACACAGT

SEQ ID NO:1055: (Length of Sequence = 205 Nucleotides)

AACTCAAATA GGAGCTAAAA AAAAAAAAAA GAATCAATGA AACAAAAAAT TAATTTTTTG AAAAATAAA ATTGATAGCA
CTAGCTAGAC TAACCAGCAA AAAAAGNTAG CAAGTACCTA AATGAAAANC TGNAATGNA AAAAGGAGGA CATTTACAAA
TNAACACAGG AAATACAAAA GTTCCATGCA GCGAACTTAT TCACG

SEQ ID NO:1056: (Length of Sequence = 165 Nucleotides)

TGCAAATTAA TGATTTCTGC TTCACCAGAT TGGTAGAATG TATAAGATGG TGCATGGGGA AGCATTTAAT ACCCAACAAT
ATCTGATTAC ATTGAAATCA CAATGGCCTC CCTATCAAAT VAGTAGCGTT ACTGTTTGGAG CCTGVAAAC TTTGAAAATA
ACTTG

SEQ ID NO:1057: (Length of Sequence = 203 Nucleotides)

CTTTCATTCA AAACCCATCA CAGAAATGGA CAGCTTGGGT CTGTAACAAA GCATTCATGT TTTAGAGCAT AGGTCACTAA
TTGTATATGA GAGCATACAC TGGCTACATA CAAATTAACT GTTCAGNNCC ACAACTTTTN CAATGTTTAA AACAGGATNA
AGCCTTCCCT GTGAAAAGCA GCACCTTTGT GAACGGTTCT TTG

SEQ ID NO:1058: (Length of Sequence = 201 Nucleotides)

AGTGCAATAT GCACATTACT AAGCACAAA AACAAAGTGA ATTGAGAACT ACTTGCATTT TTTTATGTA AATGCCAATG
AATTAATTATG CCTTAGTTTT ATGAACCTGN CTNCTCCTTG TGCAATTCCT TCCTTGCAA TGAATTGACT TNAACGCGT
NAGTGAATAG CCTCAGNCTG TAGGATGTCC TTTCAAATTT T

SEQ ID NO:1059: (Length of Sequence = 176 Nucleotides)

CCCACTGGC TACATACATG TTTTCCAAAT TAAGTTTTCT GATGGCTCAT CATTTGCCAT CTCTTCAAAT CCAGGTCCCT
TTAAAAATCT ATGACCTTGG AATGAATGTG CCAGAAATACC TGTATCCTGG AAGTCCATGC GAATNTTGGC NTCGACTGCC
ATCCGCCATC TGCTGG

SEQ ID NO:1060: (Length of Sequence = 277 Nucleotides)

GTCAGAAGCA GTTGTACAGT ATTACAGTCA GCCACAGAAG CTGTGTTGGG GGACAAGACC CAATCCTTCC CCACACCAGG
CAAAGCAGTA TTGGACATGA GTTGGCATGT GGCTGGGCCC ACGTCTTAT CCCCCAGGNC CTGNGGGGAG ACCACCTTTC

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TGAATGGTTA ACCAACCCTT AGGCTACCAC TCTGTATTTT ATCAGGGGTA GGGGTATTAA ACCCCACATG CAAGTAAGGA
ACCCTTGCCC CCAGTGTGCA AATGGGATGG GGATGCT

SEQ ID NO:1061: (Length of Sequence = 206 Nucleotides)

AGAAAGTAAG ATTCTCAGG CAACAGTGTA CAGCAGAGTG GTTGTCTCCAC AGACAGAGGA GGGCAGAGTG GCCCAGAGTA
TCAGCGTACA GCAAAGTGGG TGTTCCCATC CACAGGGGCA GCGTATCTC ATAGGANAGA ACAACCCTA GGAAGGCAAG
CGTCAGNCAG NCAGCACTG AACAGTCAAC AGTTAGCCAG TGTCAG

SEQ ID NO:1062: (Length of Sequence = 316 Nucleotides)

TTCCTCTCAC AGAGTTTTAG TTAGAATCAC TTTCTCTATT TCCACAAATC CTCTTTTTCT TTCCTTTTTAT TTTCTAAAGT
GAATGTCCAA GCAAAAAGGA AGCAAAAATG GTCAAAGATC TCTCTTACAA TATAGTAATA AATTTATNCA AACAACTTGG
AATTCACCCT GTGCATTGAA AATNCACTC CACACTGCAA ATTATGGCAT TTTTCCCN C TCAAAGGAAT TAGTGAAGTC
CATTGATGTC ATTCATACTN CTGTTTAGEN AATAAGGGAA ACCGCTTGT AAAAGTNCAT CATGGCCTAG GAGTTA

SEQ ID NO:1063: (Length of Sequence = 314 Nucleotides)

ATGATCTGGT TTATGCTTCA GAAGAAGCAT AGTAGCTTCT ACAGAAAATA AATGATAGAA GGCAAAAGAG AAACATGGCG
AGTATTCCAC TCCAGTGTCT AGTCAAGAGA TTACAAGGCG CTTGGCATGA GGACAACAGT AGAAATNGTT AAAAGTGTAC
TGGATTGCAA AATATTACTT TGGGGCCAGG GCGCCGNGG AACACGCT ATTAATACCC AGCACTTINT GGAGGTGCAG
GGAGTTNCGA GTACCACTCC TGGGCCAACA CGCNTGGAAA TCCTGTGTA AAATATAAAA ATTAGCCGGG CCGT

SEQ ID NO:1064: (Length of Sequence = 322 Nucleotides)

GAAAGCATTT GAACATAAGT TGTAATAATG GCAGATAATA ATTAACACTT GGTAGCAAGA AACGCTTCT GAAATACTGG
GAACACTGAC TTGTTTCACT GTAACCTATC ACCTAGTGCT GTATCTGCCA TAGTGCTCAC AATGCAACT TTATATCCAA
CATGGGTGTT CCATTTCTAT TTGGATAAAA TTTACTGGAA ATATACTAGC AANGAAAAAC TGGTCTTAAA ATGGCAAAAG
GCTCTGGCAC TAAATCACT GCTACTTAAC TTAGTTTACT AATTAACCTC CTTAATTATA GTTTTCCAAA TCCGCATGCA
CG

SEQ ID NO:1065: (Length of Sequence = 297 Nucleotides)

CCCTGCAAC TCCTTGATG GACTGATGCT GGAAACTGGG TCAGGGAGCT CCAGGAGGAA CCAGACAGGN TCCTGTAGC
AGGCTCACC CAAGTCTTAA AGGGCACCAG CCTTGAGAAG GGCAGTTGGG ATGTGGCCAA ATGTGAAGCC AGGTTTCTG
GGATCTGAC TGTCCAGGT TACAAGTCC TGGCCACTCT GTGAACCTTG GGCAAGTTAA CTTCACACT CTTTACAAGT
TCCCTAATCT ATNAGGAAAC ANTTAGTAC ATGACCTTCA TGGGAATTTA TTTATGA

SEQ ID NO:1066: (Length of Sequence = 267 Nucleotides)

ACAATGGGAC TGTCAAGCA GCCAGCTCCT CCTGACTGC TCCACAGGAA GAGCCATCAA CAAAGCCAAT CCCTGGAGAT
AGGCTCTGAA ACCAGGATAG AGACTCCTTC AATGGCTGCT GNTGGTTCCA CCATGTATCA TCCAGAGNAA TCACCTGNG
TGGGCATAGG TGGGCCTGGG AATCTAGGCG ACAGCAATTC CACACATCTT CACCTAGAAA CCCTCCTTCT GGGTGGGCCT
GCATGGTTTC ATGCTGTAA ATCCAG

SEQ ID NO:1067: (Length of Sequence = 220 Nucleotides)

AAAAATGCAAT TGGTTTGTTA CTGAGTACTA TTCGTGGGAA GACAGCATCC TGNACTCCCT CTCTACAGAA TATTGGGAGT
AAAAATGAAT GTCATCCCCG GTGGGAAATA TTATTGGGGG TTGAAGCAC AGAGCACAGG AAAAATTAAG TNCAGGAAAC

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AGACACTAAG AGTGCACTGG GCAGGTCTGA CTGCAGGTGA TGCAACTTGC CAGCCGTGGT

SEQ ID NO:1068: (Length of Sequence = 412 Nucleotides)

TGGCCAGCAT CTGGGAACCT TGGGTGTGTG GACCAACTTC TTCCAACACG TGCGCACTGA TGGCCGGGGC CCCAGCCAGG
CCTGNCCTGA AGGGTCTTCC CCGNCCOGAG GGACTGTAGG GGGTCTCTAG GAAGCATCAC ATCAAGGTCC TCAGGTTAGA
TNCAGENCAG CCCATTGACC CATTTNAGGG GACAGCTGGA GGAAGCCCG GAGTCCCTTG TTTCTTCAGC TGAG

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TCGCTCATGA AGATAATTTA ATGCTAGACT GATTCTGCA GAGTAAAATC TGGCATGTNC TTCAGGAAGT TTTCTTTGTC
GCTGCATATG AACATTAGG TCTCCTCCAT TTACATACTC TATAACAAAG AACAACTGTC TTTCTGTCTG AAAGCAAGAA
TGCGCCTTAA CAAGGAAAGG ATGATTGGAT GCCTGCTCAA ACACATGCTT CTCTGTCTGT ACCCAATCAA TATCCTCATC
ATCATTAACA AGCTCTTTT TCACAACCTT CATTCGATAA ATACGATCTG TTTTTTTTAA TCGAACCAAC AGTACTTTGG
CATAACTTCC TCTTCTATT ACCCGGAGCA AATCAAAATC CTGAAGACCT AGACTGGATG AAGCTTTGCA CTTTCCCTGG
NGTCATTGCC TC

SEQ ID NO:1070: (Length of Sequence = 358 Nucleotides)

GTGATTGTNC CACTGCCTC CAGGTGGGT AATGCAGCGA GACTGCGTCT CAAAAATAA ATAAATAAA AAAAAAAAAA
AAAAAAAAAA AAAAAAAG CACCACCGCA CTCCAGCTG GGCAATAGAG TGAGAACCTG TTTTCCAAA AGAAAAATNT
TAAAGANTG ATCTNGGCCA GGCGTGGAGG CTCATGCTTG NAATCCCAGC ACTTTGGGNG GCCAAGACA GTGGTTTAC
TTGAGGNCAG GAGTTCGAGA CCAGCTGGC CAACATAGCA AAACCCCAT CTNACTAAA ATTACAAAA GTTAAGTGGG
CATGGTGGTA CATGCCCTNG TAATCCAGT TACTTCGG

SEQ ID NO:1071: (Length of Sequence = 411 Nucleotides)

CTATTATGA ATTCTCGCAT TGGTTTCGAA AACTCAACAC AGTTAAATGA ACAGGAATTG AAGGTGCATG ATGGATGCGT
CCCTCATAGC ATTTAAATCT CTTCCACTTG ATTAAAAATT CCTAGTTCCT CTTCACTGAA TTGTTTAGAG TTTTNNAGCA
GCCTCTGCCC TGATTAAAC AAATTAGCAT CAAAGATCCC CTGTTGAATG AGAAATCATT AATTGAGAAA CATGCAATGC
TCTTAATTA CTTTTAGAAC AGTGAGAGAA CAAATAATCT CAGGTTCAG AGGGCCCTGC CTGCTCTGCA CCGTGAATC
ATTTGTTGTA GCTGCTGGAA TAAACTCAA GTAGGCAAAC ACTATTTGGG GAATATCAAT GCAAGCTTTC AGTAAACACA
CTGTAGGATT G

SEQ ID NO:1072: (Length of Sequence = 342 Nucleotides)

TCCCATTTTT ATAATTATTG GAACATGAAA CTGTATTCT ATGAACCTAA TGATTTTTTT CCATAAAAT ATATGCTAAG
AGAGTCACCA CAAACTATG AATTCTCTCC CGAATTATTT TTGCTTCTTT GGAGCACCAT AGTCTTTGTT CAAATCACA
CATGAACTG TTGCTGCAAT GCTAAAGATG TGAATCCACC ACTATCAATA CGGTCCAGGT AAAACCTGGA GCCACATGTT
ATTCAAGTTA TTTTGTAT CTAATGATTG ACATGAAAT AAAATAGTAA GCCAATATTA AATTTGTAGG CATAGTTGCC
CCACCTNAAA AGTGTTTACA AA

SEQ ID NO:1073: (Length of Sequence = 217 Nucleotides)

GTTTCTGTC CTGGCTAGGA TAATGCAAGC NCTTTTCAGA TGANTCAGAA TCGAAGAAAA TACGCTGGTA AAACAGGACC
TGATTTACCA GGNACTAAAC AATTACACTC CCATTTCCAT TGCTTTCAAT ATTTTCACAC GNTACACGAA CCTTTAAGAT
GGAAAGGGAA AGCGATTTTT TTTTCAACAA GTGGGCCACC AGATGAACCA AATTAGA

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SEQ ID NO:1074: (Length of Sequence = 379 Nucleotides)

GGTTAAATTT TCATCGGAAT GTATAAGCTT ATTTATTAGT GTATTTAATG GTTCATCAAT TGATAAAACA GGTGTAGCAA
ATACATGCCT TCCTTTTGGG GGATGGGCCT GGTTAATCTC CAAATTGGCC GTTTGGAACA ACTCATCAAT ACTGTACAAA
GAAGGTACCA CTGGTGGGA ACTTTCACIT TTTAACAAAA CTGGTTCATA TTTCTCACTT GCATAGGAAA TGGTCAAACC
TTGAAGTGAA GCAGAGTGCA TATGAGAAGT AGGCGACACA TCAAAAACCTG GTACAGATGT AGAGTGCAGC ATGTTTTTAC
TTGAAGCAGA ATTTGATACA ATGAGGATGC AACCATTGTA GANCTAAATT TATCAACTT

SEQ ID NO:1075: (Length of Sequence = 345 Nucleotides)

ATTAAGTTGA CAGTCCAATC AGAAATATTT AAACAAAGTT TCACTACTTA AACACCATCT AAATATACTT TTTGTTATAT
TCCCAGCAGA AATTGATGGC AAGGAATCAT ATATCCCATC AAAACCGTAT TTTTCCCCCT AAAAGGCAGT TTAGATGTNC
TCATTCTAGG NTTTCCATCT CTCTCTCCA CCATTCCAAT TCCCAGAGTA CCTCTACAAA TATCCCTGCT TACCAGTAGA
NCTATTGCT TTAACAATCT TTCTGTGGT AAGGAGATGC ATATGCCAAT GTGAAACTA TGGAGGGGA CTCCTGCCTT
CAAAGGCTGA CTAGAAACCA TTGGA

SEQ ID NO:1076: (Length of Sequence = 286 Nucleotides)

TTTTTTTGA GATGGAGTCT CGCTCTGNG CCCAGTGTGG AGTGCACTGG CATGATCTCG GCTCACTGCA AGCNCGCCCT
CCTGGGTTC TGCCATTNCT CTGCCACACC CTCCGAGTA GCTTGGACTA CAGGCGCCTG CNACCACGCC CAGCTAATTT
NTTNGTGTG TGTTTTTGGC AGAGACAGGG TTTCACCATG TTGGCCAGAA TGGTCTCTAT CTCCTGACCT CGTGATCCAC
CCGCTTGGC CTCCCAAGGT GGTGGGATTA CAGGCGTAA TACCG

SEQ ID NO:1077: (Length of Sequence = 366 Nucleotides)

TCACATAGGT CACATTTTAC CCATGAAACC TTCTAAATT ACCTTTTGCA TTNTTGCCT ATCCTTCTAC ATCATCATAC
TTGCTCAATT AAAGTCACIT TTTTGGGTAA CATTTCAGAA ATTGGGATTC CTCTTACAAT TGCTATCAGA CAGAAGCCAA
TTATGATGTT GTCATTGCTT ACACATGGN AAATAACAAA ACTGCCAGCA TGACATTTGC ATATGACAGT CAACAGCCTG
AAAGAAATTC CCAGAAATGA TACTGGAGCA TTCAATTCAC CCTCTAGGAN CCAAATGGAC TNGGAAGGAA GTAGAAGATG
GGGAATCCCT AAGCAGCAGT CAAAGTAGGC TGGCTTTTCA TAATTT

SEQ ID NO:1078: (Length of Sequence = 380 Nucleotides)

GTTTAAGTGC GAAGATTTTA TTAGGCGGTA CAATTCCAAG GTGGTAAGGG TGAAAGGAAA GGCGAAGGCA GGCAAATACA
TTATTGAGCT GAAAACAACT TTACATTCAA GGACAGCTTC CAGACAAGCC ATGTAGAACC AGCATGCCTT GGGACTGINT
GGATGGCAGG GAGACGAGTT TCTATGCTGA CCACITCATG CTTTCTSCCC CCTTTGGGGA AAGTATGCCT CACGGACCTC
TAACCTCTCC ACTTCTCTGG GGGCAGCACC TGACCCCTCC CGGCAACTNC TAGGCAAGAG CATTCTGTTC CTTCAAATTT
YTCACCTGAG TCTGAGTCAG AGCATYCCAT CATCAGAGCC TCTGTCAAGG AGGCAGTGCT

SEQ ID NO:1079: (Length of Sequence = 439 Nucleotides)

CTTAAGTTAC TGAAATTGAA ACACCCTTTG TCCTTCTCGG CGGGGGCTTC CTGGTCTGIN CTTTACTTGG CTTTTTTCCT
TCCCGTCTTA GCCTCACCCC CTTGTCAACC AGATTGAGTT GCTATAGCTT GATGCAGGGA CCCAGTGAAG TTTCTCCGTT
AAAGATTGGG AGTCGTGAA ATGTTTAGAT TCTTTTAGGA AAGGAATTAT TTTCCCCCT TTTACAGGGT AGTAACTTCT
CCACAGAAGT GCCAATATGG CAAAATTACA CAAGAAAACA GTATTGCAAT GNCACCATTA CATAAGGAAC ATTGAACGTG
TAGAGGAGTG CTCTTCCAAA CAAAACAAA ATGCTCTCTAG GTTTAGTCAG AGCTTTCACA AGGTAATAAC CTTTCTGTAT
TNAAATCAGG GTAACCCCTT TCTGTATTTG AGTGCACTG

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SEQ ID NO:1080: (Length of Sequence = 419 Nucleotides)

CTGAAC TCCC TGAAATAGG AAGTCTCAAT TAAAAATCA ATTGTG CATA GTCCACATAA AGATAATCAA TACATTTTGC
TCTCAGTCTT TGGGATGGTT TTTGTAAATA ATATTATCTT GACAAAAACA AACAGGAAGA TCCCACCCCC AACACATACC
ACATTCCAAT GTTACCTGGN ATTAAATAT ATACCAACAT GCATCTTTAG GTTACTCTGG TCCATGGTTT CCTCCAGTGG
CAATGGAATT TACAAAAATG TAAGACGTAA TAGATATATA ATTATCTTTT TNCCTAAATG AAAGTAGCCT TAAAAACTGG
TACATAATGG TTCCTGGGTT CANIGATCAA AATTATGGAN GTACACTTAA CCTATCTTCC ATTGAGTGGC TTAAATGGG
ACCTTAAACT GTGGACTCC

SEQ ID NO:1081: (Length of Sequence = 411 Nucleotides)

CAGCGTTTAA ACCAAAGGCG CACTAAACCT CGTAAGCGCA TGANCAGATT TAAAGAGAAA GAAACTCTG AGTGTGCCTT
TAGGGTCTTA CTTCCTAGTG ACCCTGTGCA GGAGGGGCGG GATGAGTTTC CAGAGCATAG AACTCCTTCA GCAAGCATAC
TTGAGGAACC ACTGACAGAG CAAATCATG CTGACTGCTT AGATTCAGCT GGGCCACGGT TAAACGTTTG TNATAAATCC
AGTGCCAGCA TTGGTGACAT GGAAAAGGAG CCAGGAATTC CCAGTTTGAC ACCACAGGCT GAGCTCCCTG AACCAGCTGT
GCGGTCAGAG AAGAAACGCC TTAGNAGCC AAGCAAAGTG GCTTTTGGAA TATACAGAAG AATATGATCA GATATTTGCT
CCCTAAGGAA A

SEQ ID NO:1082: (Length of Sequence = 350 Nucleotides)

CTGTGAGGGC ACAAGTGTAG GTATCTTTNC AAGTTCCTTA GGTGATTCTA GAATGCAGCA GGGTTGAGAT GCTCTGCCTT
AGGGGTAGAG AGGTGGGAAC ACTGACAGGT TCTGCAAAAC ATCTCTGAAC AGCTGCTGGT GTCTTTTCT GTACTTCAAG
TTTCACGGCA CATCTGATAG CTGTCGAA AGGGAAGAGA GAATTACGTG GGCTAGGCTG GTTTGAAGGT TTGCNTAAGN
TTTGCTTGA GOGACTTTAA CACGTTTATT TCAAAGTAAT TTGTGTTTGT AGCCCCACTA AAGTAATTTT GGGCCAGNAA
AGGTTCAAAA TACGGTTTTC CCTACTTAAG

SEQ ID NO:1083: (Length of Sequence = 430 Nucleotides)

GTGAAGTCCA CTGCTTATG GACAGCCCAT TTGCATGGGG CCCTGCGTGT GGTGCAGCCC AGGGTATGTN AGGAAGGCCT
CANAGGAGCT GCTGTGCCA CAGGTGGTCA CCAGGGCAGA GGTACACTG ACATACCTCC AGACCAGCCC GCTCCACTGT
GGACAGGGGC AAGTACATA CTGCTGTTT ACCATGGGGT CACGGCAGAA CCTGTNTCAC GGGGTGCTTT GTGATGCCAA
ATGGATATAG GTGGGACGTG CTGGCAGCAG CGGCCTCAGC GTGAGCCAT CTCCCCTCCC GTTCTGCTCC GGCCTGCCTG
TGGGCCTAAT GGTGGCACCG TTAAAGCANC TGCTGTGTGC TCAGCCTGGG GGNCTGAGGG TTCCATACA TGATCACTGG
TTCCTACCCA AGGCCTTAAT TCCNCTGT

SEQ ID NO:1084: (Length of Sequence = 369 Nucleotides)

AATGGAAGAA GTGAAAAGA ACAACACAAA GAAATAAAG AAGTAACCTC TTTCACCCAC TGAAATAATC TCTGAAAAG
ATATTAGCAA TCATGCAGCT TATAAATATC TAAAGGGCTA GAATTGAGGA ATTTATAAGA NTAANTTTTT TTTTCAACAC
ATAAAATACA ACATGGGAAA TAAGATGTTT TTTACTAACA GGCAAACT TGAAGGTCC TCTTCAAAGA CTACAGTGGG
TGAAAGACCA GTTATCCAAA GGAAACGGTT AGTAGAAATA TAAAGTTAGT CCCACACAAA ATTAAATGG TGCTCAATGC
AGATTATCTA TCATTANACC ATTTTAAAG GCAATTINTT ATTTAAAT

SEQ ID NO:1085: (Length of Sequence = 413 Nucleotides)

ATACCTTNA GCTGGCATAA TTTAAGTTC TAATTATCCC TTAATCATAA GCTGTACGAT TCTATAATTA AAAAGTTAAT
GCCTTCTTAA TGTCTAINT AGTAGAAGAA TGATGAGAAA ATAATAGTAT AGATTAGTTT TGGTCTCTAC TCATTTTGCC

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TTCTGATTAT ATTACAACTC CAGCTGGTGA CAAGATGGCT GTGTAAATCT TGAAATCACT GAGCATTCAT TTTAGCTTCT
 CATTGAAAGG TAGATATTCA GTATGAATTG TAAACTGGCA TTAAGGGAGA AAGTAGGNAT AATCAAACCTT GATCTGAGAA
 TTACTTGCTG GTGCATTTCC TCAATGCATA GTAATATCCT TATGANGATG CAGATGCAAA AGTGGGTTTT GGAGGTGGAT
 AAGGAGGGCA GCT

SEQ ID NO:1086: (Length of Sequence = 277 Nucleotides)

TGGATAGCAT GAGGCAAATT GCCAGAAGAG AATTTCTTTC GCATCCTAGT AGAATAAATC CAAATTATCT TTGTGGTACT
 GAGGATGTCT GGTTTAGCAC AGTGTAAGT TGTAACACTT TAACAGGCTA TTAATTCACA GTCCTAATT CAATGCTTGC
 CCGGAGTTTT GCTAGAAAAG GATGAGAAGG ATTAAGGTAA AAAAAAAAAA NAAAAAAAAA AAGATAAGGT TAACCAGATA
 CATCTTAAGA GCTGATTGCT CTTCAATCCC TAACTCG

SEQ ID NO:1087: (Length of Sequence = 360 Nucleotides)

TTTTTTTTT TTTTTTTGAG ACATTGTCTC ACTGGGTCCG CCAGGCTGGA GTGCAGTGGT GCAATCTTGG CTCCTGCAA
 CCTCTAAATC CCAGGTTCAC GCGATCCTCT CACCTCAGCC TCCGGAGGGC NTGGGATTAC AGGTGTGAGC CACCGCGCCC
 GGCAGCATT TTTTTTAAAG ATCTGTGATA GTGCATGTTG TGCTAGTTCT TTAATACAGA CTATATGTGA TTCCATGTCA
 GTTTTTAAAG TTTATTTCCC TATTGATGGC ATTTAATTCC AACTTTTAGA TAAAAGGATG TACTGGACAT TTTTATAATT
 TTTTGGGGG ACCATGTAAG AGTTTTTCTA GGGGAATTC

SEQ ID NO:1088: (Length of Sequence = 209 Nucleotides)

CTGGGACCAG CTGGAACAGA AGTGGTAAAG GATAACTAGC TACCTGCACC GCCAGAGATC AGGNTCAGGG TGAAGCTGGT
 TTCCAGCAG GCGAAGTGAA GGAAAGTGGT TNGAAAGGAA GAGGAGGAGC AGGAGATGGT AGGTCCCTCG CCTTCTCCC
 NINCTACCCT GGAA: NATAA GTGTCAGGTT CATACTTAAC CACCCCTT

SEQ ID NO:1089: (Length of Sequence = 409 Nucleotides)

TTTGTCTCAC AGCTACATCT TCAGAGGTGA GAACCATGCA TGACACAGAG AAGATGCTCA CTGATGGATT TAATGAGTCA
 AACATTGAAG AATCAATGAG TGCCGGAAAT AACAGGATA GGTGGCAGCA TAGCATGCCC TTAAGANCAT GGCTGTGGAT
 TCAAATCCCA GACCAATCAC TGANTTTCAA GCCACTTTGC CTCTCTGAGC CTCTGTTTTC TCATCTGTCA AGTGGCAATA
 ACAATAAATG GTACGTGCCT CATAGGGGCA CCTTGAGGAT TAAAAGAGAG GGTTTCAATA AATCAAGTAC TGATTTCAAA
 ACCTGGCACA TAGTAGGCAC TCAGCACATG GNCCTTATAT ACTTNTGGGC CAGCAGCGGC TGGGGCTCAT CCCTCCCTGG
 CTGGGTCCA

SEQ ID NO:1090: (Length of Sequence = 337 Nucleotides)

GAACCTNTCC CCATTGGAGA GGATGAGGAT GATGATCTGG ACCAGGAGAC ATTCAGCATA TGTAAGGAGA GGATGAGGCC
 CGTNAAAAAG GCACTGAAAC AGCTCGACAA ACCTGACAAG GGGCTCAACG TGCAAGANCA GCTGGAACAC ACCCGGAAT
 GCCTGCTGAA AATCGGAGAC CGGATAGCCG AGTGCCTTAA AGCCTACTCA GATCAGGAGC ACATCAAACCT CTGGAGGAGG
 AACCTATGGA TTTTGTGTTT CAAGTTTACA GAATTTAATG CTCGAAAACCT GCATAAGTTA TNCAAGATGG CTCATAAGNA
 AAGGTCTCAA GAAGAAG

SEQ ID NO:1091: (Length of Sequence = 411 Nucleotides)

CCACTACCAC AGGAAATCTC TATACCCCTC TTGGCTTTTC CTTTTAATGT AATTTTCTTA AAAGCTTCAA GATAATTTTT
 AATCAGGCAT GCTGAAATCT ATCTAACCTA TTAGTCACTA ATTATATTCT TCAAGCCTAT ATATTAATGT TTCTNCTGTT
 GTAAATTCAT GATCATAAAG TTTTGGACCT GGCCATCAAT ACTAAAGCAC TGATATTTAG TTTTAGGTGA TACTTGGGCA

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TAAATACAAA CACGGGATAT ATTTNGTCAT AGAAAAAAT GTGTTACTGC ATTATTTTGC ACTTCTGAAG GACTGCAAAC
 ATTTTTCAG CACAATAAGC AAATTCITCT TTCAAAAAGG NATACTTTNG CACATATGIN AGGTTTGGAA AATGACTAGG
 NCCCTAGGGA G

SEQ ID NO:1092: (Length of Sequence = 349 Nucleotides)

AAAGAAAATG CCTTGGGAAG ACAGATGCAT TTTTNNCCAC TGGTGTGCA ATTGCTCAAA TATTTTNAGG ATGAATATCC
 TCACCTTGGG GCAAGTTTT TAAGAGTGAA TTTGAATTAC TGGAGCAGTG AACAAATTATT TAGAGTCTGG TATAAGTGAA
 GAAAAGAATC ATGACCTGTA AGCTGTCTTG NAGGTACCAG CAAACTGNCT CTAAAATTTA TATGGAAAGG CAAAGGGGTT
 AGAATAGCCA ACATAATACT GNAGAAGTTG GAAGACTCAC ACTATCCAAT TTCAAGGTTT ACTGTAAAGC TACAGTAACC
 AAGGCAATGT GGCACCTGGT AAAAAGTAA

SEQ ID NO:1093: (Length of Sequence = 400 Nucleotides)

GGACCTTGTT TTACATTCTG GATTTTCCTT TTTACTTTCC TAATGATGTA ATTTAACTNC TTCCTGTATT TNCCATATTT
 CCTATAAAT GGTAGTTAGA TCTAAAAGCT TGATTTACTT ATTTTCAGATT TCTAGTCAAG GGTACTCAAT AGATTGTATT
 TCCTTTTGCC TCACACGGAG GTGCATAATG TCTGCCCTGGC CTGTAGTGAT GCTAAGGTTG ATCATTCTGT TCAGGTGGCA
 TCAGTCTGTG ATAACITCCT GTAAGAATCG TTCATTAAAC TTTTCATCTAA TGGNTCCATT CATTTCATGAT CTTTAACTGA
 ATCCCTGTTA TTTCAATTAGG GAATAGCAAA ATAATGATTT TCTAATTCGT TNATTCCTTT CACATTTATT AACTGTAAAT

SEQ ID NO:1094: (Length of Sequence = 414 Nucleotides)

GTGAGTNTC CATAACTGTT TCCTGCTGAC AAAGGGGCGAG TGGTGATGGT TCTNIGGGTC TTGGCCTCTT GCTAGCTGTC
 ACAGCAGGAG GGTGGCTTIN TGGATTGGTG AAGTGGGAT CCAGCCAGGT CCAAGAGAGA CAGGGGCGAG GTTTTNCCAA
 TGCCAAATAT ACTTCAGCAG TAGAAGCCAC AAGATTACAT TATTAAATTG TCCCAAGAGT CCCCAGTGC AAACCCAGC
 TGAACGCCAT TTAGTTATAT NCTGGTGGT TTTCTTCTG CAGGAAGTCA AACCAAGGTT TCTTATGTGT GCTTGAGTTG
 GGGGCCAGAG TGACAACITG TAGAAAATA TGTATTCCC CAGCTANGAG AACAGAGGGG AGGGGTACAT GATAGTAGGG
 AGTCAAGTTT ACAA

SEQ ID NO:1095: (Length of Sequence = 387 Nucleotides)

GATCTGGCAA CCAATTATGT AAATAGTCAT ATGAATCCTT CAGAAATGAT AACACAGCTT TNCTGACTGG TGTGAAATAG
 TTTTCAGGTG CTCATTCTTT ACTTCATTAG CTTATCTTAT ATCATTAGCT TATCCTCCAT TCAGGTATAA CAGATCTTTT
 TTTCTGATA AATATGGCAG TTTAGGGAAA TAAACTATGG CATAATATGC TAGGCCATTC TTCTAGGCCA CGCTTCTTTG
 ATGTAACTT TAAACCTTT ATCAGAACCT AAACAACCTT TCAAAAGATC TATACATATT TNNATCCAAT GTTTAAGGCT
 ATGAGTAATT CATTATGGTC ACTCTTCATT TTNTCACCT GATAATGATC TCGNCAAAA TGTGAG

SEQ ID NO:1096: (Length of Sequence = 416 Nucleotides)

AACCTAAAGC TTTAGAAATG TTGAGGTAGC TCAGAGCAAA AACCAAAAGG AAAGGTGATA TGTAGATGTC TGGGCACTCA
 CATCATAGGT TTGGATAGCT AGTTTAGGAG TAAGTGAAAC ATTTTGAAG AGCATTATG TTAACCTTGA CAATAGGATG
 GGAGATTCTT AACCCCCCTT GTAATATGCA CCGATTGATT CTNAGTTAAA ATACACCACA GTGACAGTGA TATCATCCCT
 GTACATCCTC GCCAAGTCTT CTGGCAATGT CAGCATCGCC GNCAGCCGCT CTGCCTCCAT CTCCCCATAC TCATTGTTCC
 CGATGGCATG TCTGATCAGC CGCGTGGCTG CATTTTGGTC AGCCTGTGG AGCCCGCTGG CTTTCTCTG CAGCAGCAGG
 CTCTGCAATG AGNCCC

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SEQ ID NO:1097: (Length of Sequence = 406 Nucleotides)

CTGACCTCGT GATCCGCCCA CCTCGGCCTC CCGAAATGCT GGGATTACAG GCGTGAACCA CTGCGCCCGG CATGATTGGC
 ATTTTGGGCT AAATAGTTTC TGTCCACAGG ACCGTCTTGT GCACTGCAGG TCTTTTAGCA TCCTGGCCAC TCATAGTGCC
 CGTGGTTCTC AGTAGAAGCT GTAGAGGATG TTGGGAAATT GGGGTGGGTT GGTCCACAGTG CCTGGCATCT GTCTCAGGGT
 AAGGGCTTNG GAGGCTCAAG TGCAGAGTCG TATCTGGATG CCAGCAACAC CCTGTGAGA AACTTTCTAC TATGGTATGC
 TCATCATTCT CTGAAGATGT CAGGGCCTGT TTGTTTGTTC GCCTGTTTCT CTCACTTTTG CCTTATAATC AGTTCTTCCT
 TGTGCG

SEQ ID NO:1098: (Length of Sequence = 326 Nucleotides)

GGCCCCCGG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCGCGCCCGG CCATGTAACA ACTTTTATAA
 AGTTATGATG TGATGAGTTT TGGTGTAAAG TTTTTCCTC CTCTACCTAA AACCCTTCAT GCCTTCCCAT TGCTCTTAGA
 AAACACTCCC CAATCTGAAA CATGACCATT TTTCTTTTIN ACACCCAGAT TGCTCCAGAC TTGGTCAGTT GGTGTCCCTC
 CAAGCTGGTG CTGGTGTCTT TCCGNCATNC CCCTATTAGT TTTTGAGCAC CTGGACCAGT AAGGTGTICA GTCTCACTTT
 GCACCT

SEQ ID NO:1099: (Length of Sequence = 342 Nucleotides)

GAAAAACGAC AAGTTTCAGC AGTCTAGCCT TTGGATGACC TATTTGAAAA CCACTGAAAG TCGTGGAGGA ATGGGCAAGA
 ACCACCTCAT GATTCTNCAG GCCATTGCTA ACGAACAGCT CATCTCTACA ACCAGTCCAG AGGTTTTTATT CCCTCTACTC
 CGAGCAATGA AATAGACCTG AGTTATGCTT CCTTTTCATT AAITTCITGA GATAAATAGT TTCTGAGCA ATGGATGCTA
 TGCCTGGATA CCAGTCTCCA CTTTGCAAGC CGGAACTGCC TTGGGNCAC AGTTACAGAA AAAATGTAAA CTCAGAGTGA
 TCCTTGTTGA TATTGCTATA GA

SEQ ID NO:1100: (Length of Sequence = 301 Nucleotides)

ATCGCTTGAG CCCAGGAGTT CGAGACCAGC CTGGGCAATG TGACAAAACC CAATCTCTAC AAAAAATACA AAAGANTTAG
 TCAGGTATGG TGGCGCATGA CTGCAGTCTC AGCTACTTGG TAGGCTGAGG TAAAAGGNTC ACCTGAGCCC GGAAGTAGA
 GGCACAGTGA GCCATCATTG TGTGCCACTG GACTCCAGCA TAGGGAAGGG GACTGAGACC GTCTCAAAA AATTAAATAG
 AAAGTCTTCT TTTTFTAATA TNCGTCAATT CATGAGAAAA CTGCACTCAC ACATAGTGTG T

SEQ ID NO:1101: (Length of Sequence = 300 Nucleotides)

TTAAGTCAAA GGCTAGAAAT GATTAAACTT AGTGAAGAAG ACATGTCAAA AGCCGAGAGA GGCCAAAAGC TAGGCCTCTT
 ATGCCTAACA GTCAGAAATG CAAAAGNAAA ATTATTGAAG GAAATTAAAA GTGAAACAAC CTTATTGCTG ATATGCAGAC
 AGTTTAAATA TTCTGGATGG AAGATCAAAC CAGCCACATT TCCTTAAGTC AAAGCCTAAT CCAGAACAAA ATCCTAACTC
 TCTTCAATTC TTACGANGGC TGAGAGAGGT AAGGAAGTTG CAGAAAAGTT TTGAAGTAGC

SEQ ID NO:1102: (Length of Sequence = 174 Nucleotides)

GAGATCGAGA CCATCCTGGC TAACACGGTG AAACCCCTC TCTACTAAAA ATCCAAAAA ATTAGCCGGG CGTTGGGGCT
 GCGCCTGTIN GTCCAGNTA CTCGGGAGGC TGAGGCGAGGA GAATAGOGTG AACCTGNGN GGCGGGNTTG CAGTGAGCCC
 GAGATCGGGC CACT

SEQ ID NO:1103: (Length of Sequence = 360 Nucleotides)

ACAAGGTCTT GCTATGTTGC CCAAGCTTGT CTCAAACCTC TGGTCTCAAG CAATCCTTCT GCCCTGGCCC TCCCAAAGTT
 CTGGGTATTA CAGGTGTGAG CCAGCACTCC TGGCCCATCA CAGTCTTAAA ACCAAAAGTT CTGTGTCCGA GGAAAACAG

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GAGTGATTGG TCACTCTATT TATGACTCAT AGCACTTACA GGCTACTTCG GCAGGGACTT NGGGTACCCC TGTTCTTGGA
 TGGCACATCA TTATCAGCAA CAGGAACAGT TTCTCTGAGC CCTGGGCCCT GGAGAATCTC TAGCTTAGCT ATTTTAGACT
 TGGGGTCAAA GAAGAGAGGC TCTTTGCCAA CTCAGCAACA

SEQ ID NO:1104: (Length of Sequence = 400 Nucleotides)

GGAAGCAAGA CAAAAAAGGA CAGAAAAGCT GGTITAGGTC TTCAGTATGT TTATTTGTCC CTCACATAGC GGCTTGATCT
 GTCTGCCTGT GTGTTACAT AGTTAACCAG AAACGCTAGG AGGAAGTTGT ACCAGTGGGA TACCTCCTTA GGTGCCAAAG
 TTTTATTTTG AGAAATAATA TTACTTTCTT CTTCTGAAAT AAAATAATAA TAATANGANT GAAACCCCA AACCACAGTG
 TGAGTCTCAG GTTAGCATTT GAAAACATCT CCAGAGACAT TGTATTCTT CAGGAGGTTT CCCTGACTCC TTAAATGTGG
 CTGATGTTTC ATGGTTAATT TATTITANITT TAATAAGGTA TGAGCAATCG AAGGGGCTGA TCATCTGAGG TTTTGTACCT

SEQ ID NO:1105: (Length of Sequence = 380 Nucleotides)

CCCAGTGCAG AGGGTGACCA AGCCTGGGAA GGCCCCAGGG GTCCAACACC AAAATTAAAG GTTTATTATA CACAAGAGGA
 CGTCTGTGCC CTCANAGTGG CTGGCCACCC TCCCCACTCT GCCAAGGTC CTGCACAGAG GTTTGTCTC AAGGGTGACC
 CTTCTTGGCC GCCACAGCT AGACCTCGG CGGAGAGGCA CGCAGTCCAT GCTGCTGGCA CAAGTCACTT GGCAGCTINC
 TCAGCCACCG NTTTGGCATC TTGTCTTNA GGTAGCGGCC TTNTTGGCA TTCAGACTTG AGTTCAGCC ACTCATAGAA
 TGGGACGTCC ACTATCAGGA AGNCTGCAGC CACTTATGTG TCGCCGGGCC AGAACAAAGG

SEQ ID NO:1106: (Length of Sequence = 334 Nucleotides)

TGTATCINTT TGANTTCTAA ACCCTTGCIT TTCCCACTGC AAATTGTTTT GGCTAGAGAG CAGGCTATTA AGACATTCTA
 GCCAAGCCAA TTTCTTGAGA GTNCTGCAGG TACCAGGTGT TGCTGGAGCC CAGCATCTGC TCAGAGGAAG GCAGAGAGAC
 CCAGAGGAAC CCAGAATGAG ACACTCATTT TTGCATCTC AGTTTCCAA TTAATTTTNT AGCTCCTGGT TAGGACCCGA
 NTTCAGAGA CCAGGCAGCT NTCCAACAAG AATGCTGACA GGTTCATTG TCCTCTAGGG TAGCTGCTGN CTAAAGAATA
 TTTGATTTTT TGGG

SEQ ID NO:1107: (Length of Sequence = 346 Nucleotides)

CTCACTTTAG TTTGAGTCAA TATCTGAGAA AAAAGAATG GAGTAAAAGC ACAGAAAGCA AAACCTAGCT TAGAAAATAT
 TTCTAATTC AAAAAATGAA CAAGTCAGAT TCTGTAAAGA TATCCAGTGA AATCTTGAAG AAATATTGTA TTGATTATTA
 ATTAANCTGA TTGAAAGTG ATCTTGGGTT CACAATGAGG TTGTTGAACA AGTAGCATTT TCATACAATT GCAAACCAAT
 TCAATGTTTT TNCATACACT GTTTACATTT CTTTNCAAAA TTTGATTTCT TCTTCGTGAT CCTAGTCAAA TTCTGCCTTC
 TCAGTAAATC TTTATCAAGT TTGCAG

SEQ ID NO:1108: (Length of Sequence = 410 Nucleotides)

TCTTGGCGAC GTGGTCCCGG TAGGAGACTT AGACCTGAGC TGGATCTGTT GACCCCAAAT TGTGCTTTTC CCACCAAGAA
 GAAAGACAGG GAGAGAAACA TTAGTACAAG TNCCTGAATA AAATATAGCA GAGAAGAAAC ATAATCTCTG AAATCACACA
 GCTATTGGGT TTCAAAGCGT TCCTAGCGCC CAGCTCTCT AACTCCTGGC CAGTGTCTT GACATTATGG TAATACATAA
 AGACPTTGT TCCGCTGGTG TGTGCTGTG GGAAGCCTCT GACTCACCTC CGTGCTCCAG TAGCACCTG TGCAAGCCTT
 CCAATGTGCG CTTATTGCG TGGCGCGGAA GATAATAGTT TGGATTNCTC TGCAAGTCAG ATAATAGCTG TATCCACTTA
 CTTGGCACAT

SEQ ID NO:1109: (Length of Sequence = 352 Nucleotides)

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CGCTCGTNTG TCCACACAA ATGTTTAAGA AGTCACTGCA ATGTA CTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA
 AAAGATTCCA GTGCCCTGA AGAGGCTCCC TTCTCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA
 TACCGTCTAT AACCTTAGGG GGCCCTCGGG CAGGCAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC
 AATGNCACAN CTACTGGTTA CCCCTTTTGA GGGGCATTTT TCCAGACAGA AGGCCCTTG AAGCCTAGGT AGGGCAGGT
 CAGAGATACA CCGTNTTTG TCTCGAAGGC TT

SEQ ID NO:1110: (Length of Sequence = 218 Nucleotides)

GTTTTNTCA TTTATTNCT CCCATAAAA CAGTATGTAC AAGGGTTTGA TTCAGGGGAG AGAAAGGATA TATGAAGACA
 CATTCTTCCC TCTTCTATTC TCTTACCTGG TTAGAAATAA ATAGGCATAT AGTCCNGTTT ATTATGGGCA GGAAGGTAGG
 TAAAGATCAC CTAAGTNTT ATGGCGTGT GGCCTTGGCA CATGGAGAAT GAGTTTTT

SEQ ID NO:1111: (Length of Sequence = 211 Nucleotides)

TTTGCTTTAT GAAGAAGCTG GCCTAGGTAG GGTACAAAT GGGTTTTACT GAACTTAAAC AGCTAATTGC TACATCTCTG
 AAAATAATCA GAATAGAAAA ATAGATGGAA AAATTTCAAA CCCACTGTAA GAGACTAACA TAAATCCAAT TCCAAAAGCT
 GTTAATCATA CCATCTAAAA AGAAAAGTGT CGACTAATCA TGIGTTTACA A

SEQ ID NO:1112: (Length of Sequence = 360 Nucleotides)

CCCTATAATA GTCCCGTGAA TAGGGCTAGC AGTGGGATTT TTGTTTATA GGCGAGGAAA TAAACACTCC TTTTGCTGAG
 ACTAAAGAGC CAGGTTGGGG TCTCTGGACA CATAGTGCAA TCAAGGGAGG CTTAAGACAG CAGAGGCCCT CAGAGAAGAC
 GTTCATTCTC CCAGCTACTT GCTAAGCACG TNCCTGTGA TCTGGGCAGT CCTGGGCACA CCAGTGGTGA AAATACATGG
 TCTGCTGCTC CTGCTGGAG CTCTATTTTT CCTNATGGGA GAATGCTGCT CCATTTTGTT ATGGAGGAA CTTTTTGCAA
 GCAAAGCCIN TTTGGGGAAA AATGGCGGGC TAGAAACCTG

SEQ ID NO:1113: (Length of Sequence = 448 Nucleotides)

GCGGTACTG CGTTAGTGAT TAGAGTTTTT NCCCTGCCGG AGGTGGGATA CACGGTAGCA TCATGGTCGA GGAGGTACAG
 AAACATCTG TACACACCTT TGNTTCAGG TCGTTGAAGA GGACCCATGA CATGTTTGA GCTGATAATG GAAAACCTGT
 GCCTTTAGAT GAAGAGAGTC ACAAACGAAA AATGGCAATC AAGCTTCGTA ATGAGTATGG TCTGINTTG CATATGCCTA
 CTTCAAAAGA AAATCTTAAA GAGAAGGGTC CTCAGANTGC AACGGGATTC ATATGTTTAT AAACAGTACC CTGCCAATCA
 AGGACAAGAA GTTGAATACT TTGTGGCAGG TACACATCCA TACCCACCAG GACCTGGGGT TNNTTTTGAC AGCAGATACT
 AAGTTCCNGA GGATGCCAG TGATCAGNTG CACAGTCTTA GCGGTGGC

SEQ ID NO:1114: (Length of Sequence = 268 Nucleotides)

GGCGGCCAGG TGGTGCCATG NTCTNTGTIN CTGTGCGTCG GCGATGTGG TCATCAGCCT GAGACCCAGA TAGGCTGAAC
 CCCGACTGAT GTAGGTTGCG CACAGGAGGG ACGGAGATCT TGCTGGGCA GGACGCGCGG GCGGAGCGC CACTCCCTGG
 CTTGGCAGGC ACCATCACCT CGTGACGGG CCCGNTATAC AGCCACGGG GCACACCGTG GNTTCTNCGN CAGCCTGTG
 CGAGCTTTGA TCTCTTGTA GACAAAGT

SEQ ID NO:1115: (Length of Sequence = 342 Nucleotides)

ATCAGTGCCT TCTTCAGCTC TATCTGGGAC ACCATCTTGA CCAAACACCA AGAAGGCATC TACAACACCA TCTGCCTGGN
 AGTCTCTCTG GGCCTGCCAC TCTTGGTGAT CATCAGCTC CTCTTCATCT GTTGCCATTG CTGCTGGAGC CCACCAGGCA
 AGAGGGGCCA GCAGCCAGAG AAGAAAAAGA AGAAGAAGAA GAAGAAGGAT GAAGAAGACC TCTGGTTCTC TGCTCAACCC

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AAGCTTTCTC CAGATGGAGA AGAGACCATC ACTGCCTGTT TAGTTAGGCA GGAANGCAGA GGTGTTTCCT TTCTGGGGCT
AAAGNCTCCT TCTGACCACA CA

SEQ ID NO:1116: (Length of Sequence = 416 Nucleotides)

CACCTTTGGG AGGTAGGGAT CATAGTTCCA CTCATTGAT GAGGAAACT GTAGTGCAGA GATGGCATAC ACTGTCCAAG
AACATGGTGG TGGATGGAAC CCAAACCCCA ACTTTTGCTC CCATGINCTC TGTCCACTGG CTATGGCTCT TCCCCCTGTG
TACAGATACA GGCTCTGGAC AAGTTCACCA AATCCCTTAG GCTTCAGCCC CCTCATCTGC AGAATAGTGG CTTGGATTCC
ACCATCTTCA AGGTCCCTGC CAGCTTINAT TTATTTAAAT TTGGATTTAT TAAGCAGGAA AAAAAGTAAT GGGAGTTTGT
GGGTACCAAT GGATTAAAGG GGGTNAATC TGNGGCTNG TGAGTAAAT TAGGGTCCCC AAATGG

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AAGGACCGGG ATTCTGATGA AGCCGTGTTT CTCACTGCCT GAAGTTTCCC TTTGGAGTTC CAAAGTAAAG GACACATAAG
CAACACTTCC AAAACAAGG GAACAAGGTG GTTTATTGTA AAAACAGGAA ATGGTGCATG TCATTGAGAA CTATTTTAAAT
GCAGCTATGA AAAGGGAAAA AAGTCCCGAG TCTTGATTTT CTAGATACT GAAGAGGACG TAGCATTTC ATTATCAAAT
ATAAGGAAAA TTATTCACCA TTTTGAAGCT CACCTAGAC TATGAAAATT ATATTCAGTG CAGAGCAATT ACTTCTGTCA
TTACCTGAAG TGATCAGTAT CTATCTTCTT TGTATAGCA TGCATCTCTC AAAAAGGCCT CCACTCCTTT CCTCACATC
TGIGGTCATC ATGATT

SEQ ID NO:1118: (Length of Sequence = 379 Nucleotides)

GACAGCAGCG TGTCCAGGGC GGCTGTGGAG GTGTTCGGGA AGCTGAAGGA CCTAACTGCG CCTTCCTCG AGGGTCTGTA
TATCACAGAG CCAAAGACAA TTCAGGAAGT GCTGTGCAGC CCTCAGAGT ACCGCTTGGG GATCCTAGAG TGGATGTGTA
CCCGGGTCTG GCCCTCACTG CAGGACAGGT TCAGCTCACT GAAAGGGGTC CCAACAGAGG TGAAGATCCA AGAAATGACG
AAGCTGGGCC ACGAGCTGAT GCTGTGTGCG CCAGATGACC AGGAGCTCCT CAAGGGCTGT GCCTGCGGCC CAGAAGCAAG
CTACACTTCA TGGACCAGTT GCTCGATACC ATCCGGAGGC CTGACCAATTG GGTGCTCCA

SEQ ID NO:1119: (Length of Sequence = 233 Nucleotides)

CAATATTCAA GAGTCTTTAT TGAAGACTTG AGATGGGACT TCCAATCAG AGGATGTGGG AATCCCAGCT CAAATGATAC
AGGATAAACT GGGATGGGCT AGGATGGACA GGCTGTGGAT ATGGGAGTCA TGGGTCAAAG TCTTATCCCA GATGGCTCCA
GGTACAGTGG GCTTCCTGGG CTGGAAGCTG GTTCCTCCCC ACTTCATTCT GCTCAAAGCT TCTGAAGGA GCT

SEQ ID NO:1120: (Length of Sequence = 325 Nucleotides)

GA AAAAACA CAATACCCIT NCTTTTGAGG AAAACTTACA AACTTTATAA AGAATAACA TGAATCTNCT TAGAAAGTTC
CAAGATAACA TACACAAGTG ANTCACTCT TCATATATAG GCACCACACA CATAAAGATG TAGCCTAAAT CACAATCACT
TCTCACCAGG GATGGAGATA GGAATTTACA TTCTTGACTT CATTAAGTCT CTAATTTGGC AAAAACCTCC AAGCCTTTTA
TACACATGCT GCGTGTAGGC CAGATCTCAC TCATTCTTAT AATTGTGCAA ATAATATGGA GACCAAAAGG GCAGGGTTTT
CATTT

SEQ ID NO:1121: (Length of Sequence = 161 Nucleotides)

ATTAGTATTT TTGTCTGTAT GTCCTAGCAC TGTTCAACAA CAAATTTTNC TAGTCTTGT TAATTTINAT TTGTATACA
ATGGAAGCAC AATGTTATAA GGAAAGGTAA TTITAAGCTA ACAACCAGTG CACAGCCTCA GGTTTTAAAT TACAACCACA
G

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SEQ ID NO:1122: (Length of Sequence = 181 Nucleotides)

CATCTTTTAA CATCAAAGTA CTACCAAGTA AAGAATTAA AAATTACTTG TCTAGTCATG ATATATTTTC CTNCTGCTGC
TGAAAAATCC CTGCTTATT ATTTTCATGTC CTTTATCAT TCAATTGATG AACTGACAG CAACTTGCTG AACAAAGTTA
AGAATAGCTG ATATTACTG A

SEQ ID NO:1123: (Length of Sequence = 174 Nucleotides)

CCCTAGAGTT AAATTTCACC CATGAAACAT CAGCCACATG TCATATCAAT TCAAGTGTGT AACATTGATA TAATCGGGTA
CACCACAGCA GCACTGACAG AACAGAAAT GATTGAGAGA AAGCCAATTA AACAGCCAG GGGATAAAGC AGATCTGTAT
GACATTAGCT TTTT

SEQ ID NO:1124: (Length of Sequence = 232 Nucleotides)

CTTTTAGCAG AGACGGGGTT TCACCATGTT GGCCAGGATG GTCTCTTGAC CTGCTGATCC ACCCGCCTCG GCCTCTCCAA
GTGCTGAGAT TACAGGCATG AGCCACCGCG CCTGGCCAG GGAAGGCATT TTINAAGAAA TAATAGTTGA ATTGAGATCT
GATAAAGAA GTAGGAGCAA AATNGGGGGG GTGCAGTTTT CCAAGAAGAG AAGACAGTAC ATATAAAGGG CT

SEQ ID NO:1125: (Length of Sequence = 233 Nucleotides)

GATACTATGG GTTCAGTGAC ATAGAGACAC AATTGAATTA GCAATGAGCT TCACTCAGGA GCCAGAGAAT GGGTTTNTNT
CTAAGAGATG TTTTAAGTAA CATTTAAATG GCCTGCTGA TTGATACCAG CATCAGGAAG CTGAGGACAA GAGCTCTCTG
AGAAGGAAGT TGCCATATTA CAGAAGTGAG GTGACCAAGC ACTTNTTGTA GGTCTGTACA TTTAGACATT AAT

SEQ ID NO:1126: (Length of Sequence = 258 Nucleotides)

TTTTTTTTTT TCCTAGGGGC CGCAAGACGG CTAATTTATT ATAATTCCTC CGCCGAGTT GCCCTCTGGC GCCA...JGCG
AGAACGGAGC GCGCGGATG CAGGAGGAGA GCCTGCAGGG CTCCTTGGGT AGAACTGCAC TTCAGCAATA ATGGGAACGG
GGGAGCGTT CCAGCCTCGG TTTCTATTTA TAATGGAGAC ATGGAAAAA TACTGCTGGA CGCACAGCAT GAGTCTGGAC
GGATTAGCTC CAAGAGCTCT CACT

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GTGTGAATAG GCAAGCACTT TGTTTGTGT ACTAAGGAAC TCAAATGAT AGGCTTTTIG TCACCATGTG CTTCCAGNT
CTCTGTTGCA TGAGCAGAGA TAGAGGATCT TGCACAAACA ATTAAATGCT CTAGCCATAA GTAGTGCAAG TTTCCNTTGC
TTGAAATTTA CTGCTGATAG CCACTTGNC ACACCTTACT TCCAGAGGCT AGGAAGTACA GTTTTCCAC AGTCTAAGAA
TGAAAGAGNA TTAACCACAG TAATGCATAG CACTCATACC ATGGATGACT GGATAATTTT AAAAGAATGG GAATATGCAA
G

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ACAGCTCAAT GACTTATCAC AAAGCAAAGC CCAAGAAGT CACCACCCAG CTCCAGAAAT AACACATTGA AAAGCTAGAA
AAATCTCAA TTAGATCCT AACACCACAA CTAAAGGNTC TAGAGAACCA AGAGTAAACA AACCAAAAG CTAGCAGAAG
ACAAGAAATA ACCAAGCTCA GAGCAGAACT GAAGGCAATA AAGACACAA AAACCTTTAA AATAGTCAA TGAATCCAGG
AGCTGTTTTT TTGAAAAA

SEQ ID NO:1129: (Length of Sequence = 163 Nucleotides)

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CAGTGGTACA GCAGCAGCAG ACACGCATCG CAGAGCTGGA GAAGACGTCA GCTGAACACA AACACCAGCT GGCGGAGAGA
AGCAAGACAT CCANCTGCTA AAGGCATACA TGCATGCAAT CCGCAGTGTG AACCCCAACC TTCAGAACCT GGAGGAGACA
ATT

SEQ ID NO:1130: (Length of Sequence = 382 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTACTGT TCAACAGCA ATGTTTAGTT GTACAACACA TAAAGTCTAG
CAACAATTAC AGGNCCAGTT TGAGTGTCTG TTGCTTGTT TICAATTGGG AAATTTAAGT GTAATGTCAC CGTAAGATTG
GCTGGGACTG GTAACATTTA AGAAACGGGT TGINCTTGCA TCCCCTAGGC GTGGGCCTCT TGCTCCATCA GGAATTGGTT
GTAGATGAAT GGCCCAACAG TCACCAGCCT TTGAGCAAGT TGTGTCCAGG TGGAGACAGG AAGAGGGTGG GCAAAGGGGA
ATTCTATAAA GACACAGTGT NTGGGGCAGT GGCAGTCAAC ATTCGCAAAC ATTCATGCAT CT

SEQ ID NO:1131: (Length of Sequence = 406 Nucleotides)

ATGCTAATTC AGGCTCCACA GATAGTNCITG GTGATGGGGT TACATTTCCA TTTAAACCAG AATCCTGGAA GCCTACTGAT
ACTGAAGGTA AGAAGCAGTA TGACAGGGAG TTCTCINCTG ACTTCCAGTT CATGCCTGCC TGTATACAAA AACCAGAGGG
CCTGCCTCCT ATCAGTNATG TGGTCTTGA CAAGATCAAC CAACCCAAAT TGCCAATGCG AACTCTGGNT CCTCGAATTT
TGCTCGAGG ACCAGACTTT ACACCAGCCT TTNCTGATTT TGGAAGGCAG ACACCTGGTG GAAGAGGCGT ACCTTTTTTG
AATGTTGGGT CACGAAGATC TCAACCTGGN CAAAGAAGAG AACCAGAAA GATCATCACA GTTCTGTAAA AGAAGGTGTA
CACCTG

SEQ ID NO:1132: (Length of Sequence = 400 Nucleotides)

ATTTTGGT ACCTCAGGCA GGAGGGTAGA CATAGCACTT ATCTGGATTG GATGTAGCCA CAGGATTAGA ATTGTTGGGT
CATAAAATAT GTACATGTTT AGCTTTAGTA GATCTTGCTT AGAGTTTAAA AAATTAAAAA TTAAATATT TTTTAAATTA
CAATAAATTC AGCTAATTTT AATTTTAGAT AATTTTTATA ATGTAGTTGA TCTTGGTTTT AACCAGAGCA TGTNGCTGGA
TTTTNCTCCC CAATCGAACA CAGTAGAGAG AGAAGGTGGC GGGTTCTTAG TGATACCATG CACTTTTTTT TAGAATTCA
GTGCTGTATC CCTCATTTA CAATGTATGA TGAAAAATAC TAAAGAAGGG ATNGTGGTGG TGGTGAGGGA GGCAGGAGAG

SEQ ID NO:1133: (Length of Sequence = 347 Nucleotides)

CCCAGGGCGC GCCATCCATG GACGAGCTCA TCCAGCAGAG CCAGTGAAC CTCCAGCAGC AGGAGCAGCA CTTGCTGGCG
CTCAGACAGG AGCAAGTGAC AGCGGCGGTG GCCACGCGG TGGAGCAGCA GATGCAGAAG CTTCTGGAGG AGACCCAGCT
AGACATGAAC GATTTTAACA ACCTCCTGCA GCCATCATC GACACGTGCA CCAAGGACGC CATCTCGGCC GGAAGAAGT
GGNTGTTT CAG CAATGCCAAG TCCCGCCGC ACTGTGAGCT GATGGCCGGN CACCTCCGGA ACCGCATCAC GGCTNATGGG
GGCACTTTC GAGCTGCGGC TGCACCT

SEQ ID NO:1134: (Length of Sequence = 389 Nucleotides)

GGTCCAGGCC TGCAAGACTT GCCTAGTGAG AAGATATAGG AATGGGAACC CAGGTAACAG TCTGGCCACT TTNCCATAGG
GCTGCTGAC TATGCCCAGG GCCCGCTCCA GTCTCTAGTA GCCTCANATT TTCCAGTACC TGGAGTTATC ATCAGTGAAG
CCTGTGAAC AGCAAAGATG GCAGCCTACC GCTCCCTTTG GAAGCTTTGC CTTAGGGAGG TATGAATGAN CTINTTGCTG
GCCCAAACAC ACCTGTAGGA GGTTGGCTINGA GACCCAGTT TGGAGGTTTT GCCCAGTGAG GAGGAATGGC ATTGGGAAG
TGCTTAAAAA AGCAGTCTGG GCCTCATTTT TATAGAGCAG CTGTGCTAAT GCTGAGGGGT CCACAATCA

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SEQ ID NO:1135: (Length of Sequence = 402 Nucleotides)

GCAGAGGCTT AAAGAGTGCT TATTCAGTGA GGCTTGCCCT TNCTTACTCC TTCCCTGGGAA CCCATTTGGC AACAAAGTGAA
 GAAACCTAGG CCAGCCTNCT TGAAGATGAG GGACCAACGG AGAGAGAGGC TCTGCTGTCC TAGCCCTCCC ACAGAATAAG
 TAAGCCTAGC CAACACCACG TGGAGCAGAG ATGAACCATC TCAGTTGAGC CCAGCCCAA TTGCTGACCA AAAGAATTGG
 GAACAAATAA ATAATTATTG TTTTAAGCTA CTGTGTTTCT GGGTGGTTTT GTATATAATA GTAGCTACCT GATACATTGG
 GATGACCCCA ATTACTTGAA CTCTCTTAG GCGTGTTTA TCACGTGCAA ATAGGGGATA ATTTTAGTAA TTINGGGTTG
 CT

SEQ ID NO:1136: (Length of Sequence = 381 Nucleotides)

CAGGTGCGAG CCACCACGCC CAACCAGAA CTCITTTTAT TTTGCAAAAT TGAAATTCTA CCCATTAAAT AGCAACTCTN
 CTTTTCCCTT CTCCCCAAG CCTTGGCAA CTGCTTTTCC ATTTCTATGA CAATCTCTAC TCTAGATACC TCATAGAGGG
 TGAATCATAC AGTATTGTC CTTTATGAC TGGCTTATTT CACTTAGCTG CTATATTATT AATACCAGCT TTCTGGGGAT
 ATAATTCACA AACTGCAGAA TTGAATGGTT TINAGTCTAT TCACATCGGA TATGTTTTTG AAGAGACAGT AAAACCAATC
 CTTTTTTCCT TAGGTCTCA GACACACACA TGCTTCTTTA TCTGGCAAGT CCCGTTATAA A

SEQ ID NO:1137: (Length of Sequence = 325 Nucleotides)

TATTTTTTGT ATAGACAGGG TCTTGTTATG TTGCCCCGAC TGGTCTCGAA CCCCTAGTCT CAAGCCATCC CCCTGCCTTG
 GCCTTCCATT CCTCTACTTT ATACCACGGT TATTCACCAA GCTTGCTTT GTTCAGTGT A CTTCCTCATG GAAAACTGA
 GGTGATATTT ACCCTGGTTT TTCTACCAGT GTGTAACGT CGCTAGTACC AGCTCAAAAA ATAAGAAATG AATAAATGAG
 TGATGACTAT CACTATGTTG CTCAGGCTGG ACTTGAACCC CTGGGTTCCA GTGATCCTCC CGCCTCAGCC TTCCAAGTAG
 CTGGG

SEQ ID NO:1138: (Length of Sequence = 422 Nucleotides)

CAACACACAT TAGCCTTAAC AACAAAGAGC TAATCTTATG TAAAGAACTC TTACAATTCA GAAAGAAAAA GATCCTAGTG
 AAAATGTGGG CAAGAGATAG CAAAAACCA GCCATATGAT AATAATAGTC AATAAGTGAA TCTGAATGAT GTTATCTNCT
 TTGTCAATTT TAGAAATACA AATAAAATG ATGATGAATG CACTTGCTTA CTAAATTAGC AAAANCITGG AAAAGATGAT
 GATATTCAGG GTCAGATAAA GGGAAAAGGG TGCCCTTCTA TTGCAGTTTG GAAAGTAAAT TGGCACTGAC TTTTAGTGGG
 GATAGTCTTG TAATATGGGT CAAANGTCTT CAAATCGTGT CCACATTTTG GGGCCTGCAA TTCCACTTCT AGGGATTAT
 TCTAAGGAAG TACCTAAAAA AT

SEQ ID NO:1139: (Length of Sequence = 367 Nucleotides)

ATACCGAGAA GCATGCAAGC GGTGGCTCCA CGTCCACAT CCATCCCCAA GCTGCTCCTG TTGTCTGCAG ACACGTTTGT
 GATACACTCA TTCAATTGGC CAAGGTATTT CCCAGCCACT TCACACAGCA GCGGACCAA GAAACAACT GTGAGAGTNA
 TCGGGAAAGG GGCAATAAGG CCGTAGCCC ATGCTCTCA CAGTCTCCA GCAGTGGCAT TTGCACAGAC TTCTGGGACT
 TATTGGTAAA ACTGGACAAC ATGANTGTNA GCCGAAAGG CAAAGAACTC CGTGAAGTC AGTGCCAGTG ANGCGCTGGC
 GGTGAGGGGG TAAACCTTTT NCATACAGCC TTCGAGGCT CTCCACT

SEQ ID NO:1140: (Length of Sequence = 412 Nucleotides)

ATCCAAAGGA TATAGGCAAG CATCAGATAC AGCCAAAGCA TTCTTTTCTT AAAAGAGTCT GAACGCATCT NATGCAACAC
 CCAAAGTAT CCTTTNCTC CTCGTTACAG TATGTTTTGG CTTTGAATA AATGATTAGT TATTGAACAA TATATGGAGA
 AATATCTTAC AAAAGGAAGT CATTTCATT TTCTAACATC TTTTACATTG CACTAATTAC ATGGTTTTAA TGACTATCCC
 TAATCTTCAT CCACTACAC CCCATGAATT TNAGGTTTAT TTAATCAACC TAGTTAGACC AGATATATCC TTCTAAATC

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ATTGTAGAT AGAGGATTCT CCTTTTGTCT AGTAAATACC ATTAACATAT TTNCAGANGG CCTGGTCTAG GGTCAATTTAT
TCCAGGGCCT CT

SEQ ID NO:1141: (Length of Sequence = 410 Nucleotides)

GTTAACCTGT GCGCGCTCC GGGTATCCGG CGCCTGANGT TTTAGCTGCG GTGGCGGCGG CAGTCGGGAC CGACTNAAGA
TGTCATTTGT CAGAGTGAAC CGCTGTGGTC CCCGANTTGG TGTAAGAAAG ACACCGAAAG TAAAGAAGAA GAAAACITCA
GTGAAACAAG AATGGGATAA TACCGTGAAT GATCTAACCG TTCATCGGCG AACTCCTGAA GATCTGGTAC GCCGTCAATGA
AATACACAAA TCGAAGAATA GAGCATTAGT AACTGCGGAA CTCCAAGAAA AAGCTTTGAA GAGAAAATGG AGGAAGCAGA
AACCAGNAAC TTAAATCTT GAGAAAAGAA GATNGTCTA TCATGAAGGA GGTCTCTTC TGATCAATAC CAGATGCAAA
GATGTGTTGG

SEQ ID NO:1142: (Length of Sequence = 392 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTCNNGG ATGAATGTC TTTATTAAAT AAACGAGTAA ATGGTAGCAC AAATCACCAT
CAATATTTTT GGAAGGATTG GGGACAAGAT GTCGAGTCAG AATATAATTN TCCATTTTCAG GGTCTCAATG TAGCTGAAGA
ACTGTGCCCC CTGATCAGTA TTACGTATTG CAAATGCAGG AGGTAAAGCT AAAATAGGAC TTATGCCGTT CAGAAGATTG
ANITTTGAAAC CTTAAAACT ATCATAATAG TAGGAATGCA TGTTAAGATT TGATAACTTT CTTTAGCTAG AGTTTTCAAC
CCACAGTTAG GAGCAAAGTT GTAAAGTGAG TAGGTINTGAA GAAGGGACAC TCTTTTGAGA AAAGAAATTN GC

SEQ ID NO:1143: (Length of Sequence = 200 Nucleotides)

ACTTCCTCTC TCCTGGCATC TGCTATAAAA ATAAGAAGGA GCAATATTC TTGCCTCTTT TTATCACCTG ANCIGAAAAC
CCATTGTAAC TGCCATGAAA ATAAGCACTG GTCCATGAGA CCAATGCCCA GAAAATTCAG GCTAAGATTC CTGGAAAGTG
GGCTGTGGGC ATTATTTAAA ACACACACAC AAAATTTACC

SEQ ID NO:1144: (Length of Sequence = 333 Nucleotides)

AACAGAAGCA TGTTATTTCA TTCCATTCC CAGAAAGGGA GTTAATGAAG ATAAAAATTT ATTTTTTAAG GTCTTTATTG
AGAGAACTT TGTTTTCTGA TATGAATAT TGCAGATGT TTTATAAATA CTTCATTAA AATGATGTA ACAGTAGTAC
CCAACACTGT AAACTCAGTG AAAATAGTAA ATGATTTCTT TATTACTAAG ACTGTCATGC ATTCTGAAGC AGFTGGCTTT
TTTTTAACCA TAGGAAGTCA TTCCCTCTA GCTCCTTCCC TTCTACTCTC CTGCTCAGAC CATTAGTAGG TACTTTGTTA
AATAAAAAAC TAG

SEQ ID NO:1145: (Length of Sequence = 225 Nucleotides)

TGGGTTTCTG ATCCGAGAAA AATTGAAAGA CAAACATGGC TGGGGGAAGC AAAACGCTGA CACACAATTC AGGTGGCCCA
GCAGTGCTGA CCTGCAATCC ACCCCACCCC AAGGCAGCCC TTTCATCCA AAGTGGACAG AGTGGGCCCTT ATCCAGANT
CACTCAGGAA GCTTCTTCAA ACATATGACT GCCACACCG CCCCCAAGGT TCAGAAACAT CTTG

SEQ ID NO:1146: (Length of Sequence = 223 Nucleotides)

AAGGNACAT ATTATTCTAA ATAATTTAGA TTTGGAAGAC ATCAATGACT TTGGAGATGA TGGGTCCTTG TATATTACTA
AGGTTACCAC AACTCAGNT GGCAATTACA CCTGCTATGC AGATGGCTAT NAACAAGNCT ATCAGACTCA CATCTNCCAA
GTGAATGTCC CTCCAGTCAT CCGGGTGTAT CCAGAGAGTC AGGCTAGAGA GCCTGGGGTA ACT

SEQ ID NO:1147: (Length of Sequence = 389 Nucleotides)

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ATTTCAGTGG CCATTAAGAC CCTGAAAGTT GGCTACACAG AAAAGCAGAG GAGAGACTTC CTGGGAGAAG CAAGCATTAT
 GGGACAGTTT GACCACCCCA ATATCATTCG ACTGGAAGGA GTTGTTACCA AAAGTAAGCC AGTTATGATT GTNACAGAAT
 ACATGGAGAA TGGTTCCTTG GATAGTTTCC TACGTAAACA CGATGCCAG TTTACTGTCA TTCAGCTAGT GGGGATGCTT
 CGAGGGATAG CATCTGSCAT GAAGTACCTG TCAGACATGG GCTATGTTCA CCGAGACCTC GCTGCTCGGA ACATCTTGAT
 CAACAGTAAC TTGGTGTA AGGTTTCTAA TTTGGACTT TCGGTGTCC TGGAGGATGA CCCAGAAGC

SEQ ID NO:1148: (Length of Sequence = 386 Nucleotides)

ATTAATTGCT TGCCATCATG AGCAGAAGCA AGCGTGACAA CAATTTTINAT AGTGTAGAGA TTGGAGATTC TACATTCACA
 GTCCTGAAAC GNTATCAGAA TTTAAACCT ATAGGCTCAG GAGCTCAAGG AATAGTATGC GCAGTTNATG ATGCCATTCT
 TGAAAGAAAT GTTGCAATCA AGAAGCTAAG CCGACCATTT CAGAATCAGA CTCATGCCAA GCGGGCTAC AGAGAGCTAG
 TTCTTATGAA ATGINTTAAT CACAAAATA TAATTGGCCT TTTGAATGTT TTCACACCAC AGAAATCCCT AGAAGANITT
 CAAGATGTTT ACATAGTCAT GGAGCTCATG GATGCAAATC TTTGCCANGT GTTCAGATGG GGCTAG

SEQ ID NO:1149: (Length of Sequence = 364 Nucleotides)

GGCAACAGGG TGAGACTCCA CCTCAAAAAA TAAAAAAA GAAAGATATT ATTCAAGAAA AGAACTTAGG AGCCAGGTGC
 AGTGGCTCAT GTCTATTATG CCACTACTTT GGCAGGCCAA GGCAGTAGGN TCACTTGAGG CCGGGAGTTC AGAGACCACT
 CTGGGAAACG TAGCAAGACC TCGTCTCTAC AAAAAAGTG TTTAACAAAT TAGCTCAGTA TGGTGGCACA TGCCTGTAGT
 CCCACCTACT CAGGAGGCAG AGGCAGAAGG ATGGCTCGAG CCCTGGAATT CAAGGCTGCA GTGAACCTAG ATGGTGCCAT
 TGCACTCGNG GATGGGTGAC AGAGCAAGAC TCCATTGCCG CCAG

SEQ ID NO:1150: (Length of Sequence = 267 Nucleotides)

GACAGGTGTA ATCTAAGCTT AAATAAACCC CCGGAGGCT GCACAATTNC TTGGCATCTC TCCCCTGCCC TCTCCATCCG
 CATATTCATT TTGGAGTTTG GAGAAGTATC TAGAATCTNC TCCCACCCCA AAATGCCAG CAGAGCCCCC CCGCGCCCC
 CGCACCCCTT GGAGCTGCGG CTGCTGAAT CGTTGAGATG TCTGANACTG TCGGGTTC CTACCTAGTG CTTCAACCAG
 ATCACTCAC TTTTGAGTTT CCTTCCT

SEQ ID NO:1151: (Length of Sequence = 386 Nucleotides)

GGAGACGAA GGAGGAGTAA AGGCATGINT CACATGGCAG CAGGCAAGAG AGCGTGTGCA GGGGAAGTGC CCCTTATGAA
 ACCCTCAGAT CTCGTGAGAC TTATTCACCTA CCATGAAAAC GGCACAGGGA AAACCTGCCC CTAAGCTTCA GTTACCCCCG
 ACAGTCCCT CACATGACAC ATGGGGACTA TGGGAGCTAT AATTCAAGAT GAGATTGGG CAGGGACACA GCCAAACCAT
 ATCAGATACT TACCACATTA GACACTGACA GACAGCTCAC CACAGATTCT GGGCTCTATT CAAGGTGTTG ACTTTGATCT
 TTTTCAGTT GTAAATGTTT CATCCAAAAA AACTGTGATT TTGGCATAAC TTTTTCAAG AGTTGC

SEQ ID NO:1152: (Length of Sequence = 239 Nucleotides)

GCAATCTTTT GAGTGACTTA CTTTGAGTCT TTGTACCTT TCCTCTGATT TTTTCACATG GTTTAACTCA GTGTACCCAA
 GAGTACTAGG TGCACCTAAT TCTGCTATTA ACTCTATAAG CAAGTCTTA AGAAAGTTAA TGTAAAAAA TAATCTTAAA
 ATTGCTTGA TAGGAAAAAT GTATTGAAA TAAAAAAA TTCTTATGTT GACTTCTTGG TTTTGAACA ATGAATATA

SEQ ID NO:1153: (Length of Sequence = 275 Nucleotides)

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CAACCTCCTC TTCAGTGTCA AAAAAGCCAC GGTTAGACCA GATTCTCGCC GCCAACCTTG ATGCAGATGA CCTCTAACA
 GATGTATGTT TTGTTTCCTC CTTTCATCTC TAATAATTGA TTTACCATGT TTTTCTAAAA TACTTGTATAT GTCTTTNCTT
 TAAGAAGTGA CATATATTTA TGTTTAGTTA CTGTTATTCA AATATAGCCC TGACCTCAGT GCTAAACTTT ATAGTTGATT
 TTAAAAATCA AAGTATTATT TTGTGGGACT TTAAG

SEQ ID NO:1154: (Length of Sequence = 203 Nucleotides)

CCTAAATCTT AAACCTTACA ACAGTTAAAT AAGACCCCTT TCAAAGGGAT TAACACACTG AATATTATAT ACATACAGAT
 TTATATTTAT GCGCTATACA CATATATGGN CTTTATCTGT ATATAAATAT GTGATGATAA TGATAAAAGG ATAATGATT
 CACGTAGGAT AACATTTAT CAAAATTGT ACTATAAATA ATA

SEQ ID NO:1155: (Length of Sequence = 343 Nucleotides)

GAAAACAAA CACTAAGCTA TTTTGGACA ACTGTTCTAC ACAGAAGAGA GCTTCTCTTA ATTTAAAAA AAAAAAATC
 CCAATAGGC ATTTTAGGC ATTAACCAA AAAGAGAATC CAAATGAAAT ATTATACTTG ATGTTCAATT TTAATAGCAT
 CTTGATAAAG GTATGCTTCC TTTCAITIGA NTACATTTCT GNACATGTAT GTTATAAAAT CCAGGNAACA GCCAAACCAC
 AAGTTAACTC TTAACAATGA ATATACATAG TTAACCCAT AGTAAGCAGC CCCTTTGAAA AGCACTGATG CACCCAACAN
 TTATATGGTT CCATTTTATA AGG

SEQ ID NO:1156: (Length of Sequence = 396 Nucleotides)

CCCACCAATT GCCATTAAAC CTCCCAATCT TTAAGTGGAG GNTCTCTACT TACTGTTTCA AGGCAAAAAG ATGATTAAAC
 TATCTCACAT GGTGTAAAT TGGGCCTAAA ATAAATGACT CTAGTGGTAG CATTTCATGT AGGCAGGTCC AAGGAAGACA
 GATTGTAGA CAGAGTTGGG AAAAGGGTCA AAGAGCCAAT GAGTCTCCCT ATCCTGAGGG ATGCTTGAC GGAGCCACAG
 CATGANCTCA TGTTTTCCTG AATCCATCTC AGTTCATGTG ACAGGATGGA AATGCTTCCT TTCTTAGCCA GTGTTGCTTG
 TAACGAGTTC CTTGCAGCTC AGGGAAGGGA GCAACATGTA CTGCTTTGTT GCTTCTGTA TAGAGAAGGC AGGAAT

SEQ ID NO:1157: (Length of Sequence = 269 Nucleotides)

CAGGGTCTCA ATCCGTCTCC CAGGCTGGAG TGCAATGGCA CAATCTCAGC TCACTGCAAC CTCACCTCC CGGGTTCAAG
 TGATCTCCT GCCTCAGCCT CCCTAGTAGC TGGGACCACA GGCACCTGCC ACCGCAACCA GCCAACTTTT GTATTTGTAG
 TAGAGACAGG GCTTCACCAC GCTGGCCAGG CTGGTCTCAA ACTCCTGACC TCAGGTGATC TGCTGCCTC GGCCTCCCA
 AGTGCTGAGA TTCCGGCGTG AGCCACTTG

SEQ ID NO:1158: (Length of Sequence = 190 Nucleotides)

CTTATTAGTT AATTCCACGG CAGATTTTCA TTCTATCGA ATATATTATA TGTAGAACT AGGGCCTTAA ATAATTAAGC
 TGACTTINCC TATTAGTTAT TCCTTAAGAT AAAATTATGC TGGTGAAAT NACTGTINGAA TTCTCAAGA AATTAAGCTC
 TATAGAGGCA TAAGTAATCG AAAGACTTTT

SEQ ID NO:1159: (Length of Sequence = 340 Nucleotides)

GGGCACTGAC TTCCTGGGAG TGTAAGCNC TCACCTGGAC CCCACAGCCA GTGAGCATTG GTGCTTATAT TCCATCCTCC
 AAAGCTCTTT CTTACATACA GACCACATG GTGGCCCAAG GAGGGATATT TACTCTGCAC TTTTAGAGTT CTAGAAAACA
 TTGTTTAGTG GTCTGGCATC ATCTATATTT ACTTGGCTTG ATTTGGGATA GAGTATAATC CTAGTCTCG ATGAAAGGAT
 TTINATGAGT TAACCTTATG GGGTGATGGG ATTATGGGA TTATTTCCAC CCTTAAATG ATTTGTGGG GAAAAAAGT
 GTACTAATCC CTAATTTAGG

SEQ ID NO:1160: (Length of Sequence = 215 Nucleotides)

GTAAACAAAT CAATTACAT GATTATCCCA GACCTTCTT TTCTTACTGG AAAAAAGAGG GCATTAAACT GGATGATGAC
AATAACACCA TAACTACAAG CTTTTATAAA AGTCCTTTAT ATACAGTGTT AATACAGTGA AAGNTCAACC TTATTGAAAG
AGGTCIGGCT TCTGCCCTCA GCTACTGGGA AACAATCACT AGGCCTCTGG CATGT

SEQ ID NO:1161: (Length of Sequence = 298 Nucleotides)

AATCTTTAAA ACTACTTTGA ATCTTATAGA AACATCAGAA TCCTTTGAAT TCAAAAGAAG CCAGGGACTC TAGCCAAAGT
GGAGTGGTTT TTTAACTCAA GGATTAGGA CCTTGGCTGA ATACAAACAT TGAATGATTA CTCAGTAGGT GCCAAAGCTC
AGGACTTTAG ACAGAGTCAG AGTCCAGTTT GTNCTGAAAC ACAATTTGAT TTCAACTATT GTTTTAAGTG AGAGAGGAAA
GTGACATTAT TATGAGTGTA AATTINCTGC TTTTAAAGTA GAAGTTACTG ACAATIGA

SEQ ID NO:1162: (Length of Sequence = 163 Nucleotides)

GAAATAAGAA ACAGCTTGTA TATAACTAAT GCCTTGAGGG AGAAATTCAA ATGGCTATGA AAAAAATTTT ATAATTCAAT
GATAATAAAA ATCTTACACG TTAATACTTG AGAATGTAGT TAAAGCAATA CTGGNCATA ANCTTAGCAC ATATTAGTAA
AGA

SEQ ID NO:1163: (Length of Sequence = 393 Nucleotides)

GCCAACACCA GGAGCATTTT ATTCAGATGT TAAATGAACC AGTTCAAGAA GCTGGTGGTC AAGGAGGAGG AGGTGGAGGT
GGCAGTGGAG GAATTGCAGA AGCTGGAAGT GGTCAATGA NCTACATTCA AGTAACACCT CAGGAAAAAG AAGCTATAGA
AAGGTTAAAG GCATTAGGAT TTCCTGAAGG ACTTGTGATA CAAGCGTATT TTGCTTGTA GAAGAATGAG AATTGGCTG
CCAATTINCT TCTACAGCAG AACTTTGATG AAGATTGAAA GGGACTTTTT TATATCTCAC ACTTCACACC AGTGCATTAC
ACTAACTTGT TCACTGGATT GTCTGGGATG ACTTGGGCTC ATATCCACAA TACTTGGTAT AAGGTAGTAG ATT

SEQ ID NO:1164: (Length of Sequence = 260 Nucleotides)

TGCATTCTTG CCTCTTTGAC AAGTTCTGCT TCTTTACAAA GGACTTTGCA AGTNCITTCAC CCAGACCATC TCACCTGTAC
CGAAATAACC TCCCCTACTA GCGAATGAGC AACTTTGGAG CAGAAAGCAG AAACCTGCATC ATATTTCTCT TACTATGCAA
ACTGGTAGCT CAAACCTCAT ATGACCTCAA AAAACTATAA TTGCTTCAAC CTAAAAAAGC TGATTGTAAA AAAAAAAAAA
NGCTGTGGTT GCACACAGT

SEQ ID NO:1165: (Length of Sequence = 330 Nucleotides)

CATTGGTATT TAAAAATGAA TATTAATATA ATGAAATGGN TTTGCCTTTT TGTAGGCATA ATAAGCCAAA TACTTTTTTA
CCCAAAATAA TTTNAGAGA AAATGATGTA ATGAAAAATT GTACCATGAA TTAGGAGCAT AGTTTTINCC ATTTAAACGT
CACCATTACT TAAAAGATGA TTGATTATTG CTATACCAA TCAGATGAAC TCTGTTTCATC ACTTTCCTNC TCTGTCCCA
AACAATTGG TTCATTGAGA CTGAAATGTT TGTGTCTTCA ACTTATTAGA ATGGAAGATA ATGCAGATAT TTCTGTGGGA
AATAAAATAA

SEQ ID NO:1166: (Length of Sequence = 312 Nucleotides)

ATTGGAGATG CCTTTGTCAA ATTNCCCAT TTTAAATGGC CAGGAAAAAC AATAATTATT TTCTGATGC TGAGGTTTTA
TATCTTAGTA GAAGAACTTA AACTATGACT TGTATTCAAG TCTAACAGGA ATAGAGGTAA TGANTGAAAG TAGTCATTGA
CCTGGGACAA GATCACTTTG AACATGACAC TATTATACAA AGTGTAAATAT TTATTTTAA ACAACCACTT TTCAAAGCA

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GTGTGTCATA CATTCCAAAG AATAAAATGC TAGCTACTAG GTTTTGAGAA GCAGAATAAA ATATGATACT GA

SEQ ID NO:1167: (Length of Sequence = 305 Nucleotides)

AGGAAAAGGA TTGATCACAG GAGAGGTACC AAGGGAGTTC CCAGAATAAT AGAAAAGAGG NTCCTCAAGA AGACAGTCAC
GCAAGAGACC AAGAGAAGAG CTAATCCAAT TGATGCAGGA GGAAGTAGAG CTTCAGAAAG AATGTCTCAA AAAAGAAAAA
AAAAGAAAGG AGTGGGTTAA GTATCTGATG ANTTTNCCTAA ATTGAGAGGA GTTACATAGC TCTATTGAAA ATCTTAGATA
AANNTGATTG ATAAATACAT AGANCATAAA GCAAACACTG AAATAAGGCA ATTATCAACT CCAGG

SEQ ID NO:1168: (Length of Sequence = 342 Nucleotides)

AAGGTTTTAG TGATGATTCA GTGAGAAACA TATTTGAAGC AACAAGCACA GTAACGGAA GCTGTAGGTA CTCATAAGT
GTCAGTTTCC TTCCTCTTCT AAAAGCTGTG CTTTCAAGTC AATTGTATGT CTAGAGTCGC ACTGTCTGGT ACAGTGGCCA
GTACTAGCCA CATATGGCTC TCAAGTACTT TAAAGAGGGC TAGTCTGAAT TGATATGTGT CATACTGTAA AAATACTTTA
AAGAGGGCTC ATCTGAATTG ATATATGCCA TGCATGTAAA ATACAAATCA GATTTCTAAA ACTTTGTACC AAAAAATACC
ATAAAATAAC TTACTAATAA TT

SEQ ID NO:1169: (Length of Sequence = 397 Nucleotides)

GAGACGGAGC TCCNTCTGTC GCCAGGCTGG AGTGCAGTGG CACGATCTTG GTTCACTGCA AGCTTCACCT CCCAGGTTCA
CACCATTTCTC CTGCCTCAGC CTCCCAGTGA GCTGGGACCA CAGGCGCCCA CCACCACGCC CAGCTAATTT TTTATATTTT
TAGTAGAGAC GGGGGTTTCA CCGTGTAGC CAGGATGGTC TCGATTTTCT GACCTCGTGA TCCGCCCGCN TTGGTGTCCC
AAAGTGCTGG GATTACAGGC GTGAGCACCA ATGCCACGCC TTTGAGAGCA CTTTGTATTG CCACAACCTA GGGTAGGGAG
GGCTGGGAAA TATTACTGGT GTGTAGTGCA TCGAGGCCAG GGATGCTGCT AGACATCCTG CAATGCACAA GGACAGG

SEQ ID NO:1170: (Length of Sequence = 422 Nucleotides)

GTTTTAAAGC CTCTGGACAG AGCAGTATTT CGTTTAAAAC TTTGTTTTTC TTAAAAGCTT ACAGTGTGTTG GCTAATTTCTC
CTCCCTTTT TACAAGACGG GGGCCGGAGG GTGGACACTG GTGGCAGGTT AAGGGATACT GTCACTTTAA GAAGCCTGCA
GATTGAAGTG TAAACATGGA GAAATTAGGG GCTGATTTTT TAACTGTGT GAGATATTAA CCAGCCGCCC TGTATATAAA
TCAGGAAATC CAAACAGCGA TTTACACCGA TTAACACCCC CTTTATATAT TTTTACAAA AATACACTGA GAAAATAATC
AAACGTTTTT ATCTCTCTTG TCTTTTTTTG TTTTTTAAAA GTGTCAAAG TCTACATNTA AATATAAAN ATTAAAGTT
AAACTCTAGC CCTTCAGTGA GG

SEQ ID NO:1171: (Length of Sequence = 384 Nucleotides)

TCTGAATGGG TTGGTGAAAG GTTACAGGAG CAGACACCT CCACACCCAG GCTGCTCTTG GCTATACAGG CTACCTCCAT
CCCTGANTGT TGTAATAGGA AAGTCTAAAC ACACAGAAGA GGAGCACAAA ACCAATAATT ATCACACATT CAAAATAAAA
CTAATCCATA AAGAAAAGTA CCAAACTCAA CAAAGACAGC AATGCCCTGAA AACACTGGGC TGTATCAGCA AATAGAACAA
AGAAAAATAN GCATAATTAA AACAGTAGAA GGTGAAGGAT AATTTTTTAA ANTTAGATAT CATATTCTGA TTATTGAAAT
AAAAAATTA GTAGAAAAGC TTAAGTGAAG AGGATCAAAC CTGAGGAGGA CCCCAGCAGT TTG

SEQ ID NO:1172: (Length of Sequence = 418 Nucleotides)

GAGAGAAAAA AAAAAATCT TTTAAAAGCT GCCATCTGAG GTGATGGCTT CTCTGTACTT ACGCCATACC CCAGANTACA
ATAAATAAGC AATTAGAAAA CGTTCAAGTA TGAAGGGATT TCCTCTCTCC CGCCAAAAGC ACTGCTCTCT GAAGGAAGCT

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GGTTTCTCTG TAGCTACACC AGCTGTTTCTG AAAGCTCATT GGACCTGGTT TTGAAAATAA AACAAAGTTA AAACCCTGGG
 AGGAGTTTAT GTNCAGTGTG GAGTACTCAG GCTTTCTTAT AAAGAAAAAA AAAGGTTATC TGGTACCAA GTGTGCACCT
 ACAGACCCCTC AGGTACTGCC CTGTGACTTC NCTGTATGAC ATCACAAGGC TGCCAAGTGC TGCTTTNCTA GACTAGGGAG
 TTGGTGAGGT TTTGCTAG

SEQ ID NO:1173: (Length of Sequence = 274 Nucleotides)

GAGATCTAAA TGAAATTTAT AAGAAAATTG TGGGTTCTGC CCAAGATGAC ATCTAAATTG AAGAAGGTAC ACAGTGAGTT
 TAAAGGATCA ACGAGAGAAA CTTTTATTAT TCATTTCAC AAGAAGACAC ATTCAGTATC TGGATTATCC AATATATGGA
 ATACTTTGAG TTGAAATGAT TAAAGGGTAA TCTTTAATCA TTAATTAACA AATCATTAAAT TAANCAAAAT AATATTTAGC
 AAATTAAGCA AGTNCATAAG GCTACATGCA AACT

SEQ ID NO:1174: (Length of Sequence = 326 Nucleotides)

AGAAATTTAAA ACACTTTAAAT ATAAACATTT CCAGAATATA GACTGACCTT ATATCAGTAC TTTTNGAGAC CGTTTTAAAA
 CTATATATCA TCTAAGTTTA TTATAGACTG TTTCATTTTC CACTTTCAGA ACTAGAAAAT GCAAAAATAC ACTGCAAAAT
 AGATTTAACA AAGAAAAAAT CAGTTTAAGN TATTTTCATAC ATATTCCTTG GNGAAAGCTG AGACACATAA ACACAGNAAA
 ACAACAATAA AATACCACCA AACTTAACAC AAAACCAAGG AAAGAAGTGN TTTTGTACG CTGTGTAATT CTGTCCCTTA
 AAATAA

SEQ ID NO:1175: (Length of Sequence = 426 Nucleotides)

GCAATCAGGA TGGACACATT AGAAAGAAAC ATTTTAGTTT CAATGTTACC ATAAAACCAG AACGAAAAGC AGCATGCTGT
 ATTATATTIN NCAATTTAGG TTCCATTTCT AACTCCACCT AAAATGAATA TGAACAACT CATTTTTAAG TGTTTGTGAG
 TCAATATCAA TAATAGTCTA AGTTTATCA CATATGTACC AACCAAAGCC CAATAAAGCT AAAAGGAAGC CAAGTGTAAAT
 AAAAAGGCAG CTATAAGGTC TTGTGTTTGA NTTTTTACCC AGCAAGAAAT AAATGATACT TAGTAATCCA TCTTTCCCCC
 CCACTGCCAT CCCTGCACAC ATCTAAAATA GGCTAACTTC ACCTATTCTA ACTTCTGAAA TGTGTTTGGG ATTCTGTGTT
 TACTTTCTCA GAGTGGATGG TATAGC

SEQ ID NO:1176: (Length of Sequence = 301 Nucleotides)

CTAATCCTCA ATCCTATCCC TTNCCTCTT AGCCATCCTC TCTAATTINT TTAACCTAAG CCGTGTGTC CTCAGAAAAT
 AGGTTATGCT GTTGGTGTGT GTGGTTGGTA ATCTATATAC ATGNGTTAT GCTATTGATT TTGTTTGGTA ATCTCCCTTT
 TTAATCAATA CTATATTTAT AAGANCCNTT TAAGTGGTGT TATGCTCTA CTTTATGCT TCTGACTGCT GCATGGNATT
 CCATACTCAT GTCCACCACA CTACTCATT CTCCCTCTG ATGGAGCTG AAGTGTCTG G

SEQ ID NO:1177: (Length of Sequence = 331 Nucleotides)

GCAATTCTCC TGCTCANCT TCCTGAGTAG CTGGGATTAC AGGTGCTGAC ACCACGCCCG CTAATTTTTT GTATTTTTAG
 TAAAGACAGG GTTTCACCAT GTTGGTCAGG CTGGTCTCGA ACTGCTGACC TCATGATCCG CCGGCTCAG CCTCCCAAAG
 TGTGGGATT ACAGGCATGA GCCACCAAGC CCGGCAAATC CATGCTTTTA AACATTACTC TGTATGGTGT GATAATGAAC
 AGTCACTGNT ATCTGACTGT TCATCTGTGT GGTCCATCTG TATTGAATAA AGGAGGAAGG AGTTGAAGAA TAAAGGGGAA
 AATCTTGCAG A

SEQ ID NO:1178: (Length of Sequence = 325 Nucleotides)

GAAATINTTG GAGAGAATAG TCATACCTAC TTTAAAGAG AATAAATTGC CTTTCCTAAA TNCCTCTGCT TCGTCCCTTT
 CCGGCGTTG CTCTGGAACC TTGTGAGTTA TATGTATGAT TNCCTGACTC TGATATCCAT CAAAGTGCAT AACATAGTAC

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TCATGATGCA GTAAGTACAA ATCTTTTGTG AAAGAGATAT TGCTTGTAAC CATTTTGGAT TTATAACATT GGCTTATAAT
ATATACAACA TCTTTATAAA TGCCACCTCA GTTGGGTTTT AAGCCTTACA AGAGTGCTAT GAGTAAATAT CACCCACTTT
AAAAA

SEQ ID NO:1179: (Length of Sequence = 297 Nucleotides)

CCTTGGGAAT TGTTTCTTGG AATTAAAGC ATGTGTCTCA CACAAACAGT AGAAGGCATT GAGCAITCAT TAGTCTTTCC
TCAAGAAGAT ATCAAAATGA GACTAGAAAC TCTCTGGTGA ACACAGAATG CTCTGAGGGG GNCCAAGGTA CATTATGACC
TTAAAACGAA CTCCTTCTCC ACTGGCCCTA TTAATCACTG TGGAAAGCAC CATGCCAGGC ACAGCAAGAG ACTTAAGAAC
ACCTACAAAG GAAGATCTCT NCCATCCACT TGTTAATTA TCTTTAAAAA GTAATCC

SEQ ID NO:1180: (Length of Sequence = 278 Nucleotides)

GCTGCTTGGG ACTTGAATC TGTTGCCGAA GACCTGTCAC TACATAACTT CAAAAATAAT CAACCACCTT CCTTCCCAA
ACCACCCAAA TTCACTCATC CAGCGTTTAC TTTTGTGAAT CCCTCAGAA CTTTTTNCIG CGACCCCCCT CCTAAATGG
AGTTGGGTGG GGGGGAAATG AATACTGAGT TGGCCTTAT TTTTAAAAAG ACTTTTGTAT CCAATGAGGC CCCCTAAATA
ATTGAGTTT GGGTCTGGT TGGTTGTGT TATTTGT

SEQ ID NO:1181: (Length of Sequence = 331 Nucleotides)

AATTGAGTGA CAGGAGAATA CTGTGAACAA TTGTACAGCT AAAAGTAATA ATCTAAATTA AATGTACACA TTCCTAGAAA
CACACAAATC ACAAANCTG ACTCAAGGAG AAATAGAATA TCTCAACAGA CCTATAACAA CTAAAGATAT GGAATCAGTA
ACCAAAAGCC TTCCAACAAA GAAAAGCCCN GGANTAGATG ATCTTCACTG ATGNTTCTA CCAAACATTT AAGAAAGATT
TAACACTAAT TCTACTCAA CTCTCCACA AAAAATATGA GANGAGTAGA GAAACTTTC TAAATATCT TATGAGGGCA
GCATTACCGT G

SEQ ID NO:1182: (Length of Sequence = 345 Nucleotides)

GTGTGTNTAG AGGGATGGAC AGGATGCTGT TTATTNCCC TTTCTTGGAA ATGGACCTTC TGTCCTTCC ATTTGGACAC
CACAGTGGAA GCTGGTGGCC TGAAGGAAG GATTAGGTCA TGGACATTG AACAGGTGCC TTGGGCATGA TGTATAGATG
CAGTCATATA TACCTTGCTG GNTGGGGTG CCACCTCCAG TGGNCAGCTC CAGATCCAAG GAGCAGCCCC CTGGGGATGG
ACCCCATTC TATCATGA CTCCAACAG TTTTINATTG TGAAGAAGA AACTTTNGCA TTATAGAGAC ATCATACAA
AACAGTANAA ACAAATCAA CCTG

SEQ ID NO:1183: (Length of Sequence = 272 Nucleotides)

ATGGAAGATT CAGAGATCAA AGGTGAAGTC CTCTATCTCG GCTACTACCA ATCAGCCTTC GACTGCVATG ATGAAACANC
CAAGGCCTCC AAGCAGCATC GTCTTAAACG CTACCACAGC CAGACCTATG GCAATGGGTC CAAGTGCGAC CTTAATGGGA
GGCCCCGGA GCGCGAGGTT CGGTTCTCT GTNACGAGG TGCAGGTATC TTTGGGGACT ACATCGATCG CTTGGACGAG
CCCTTNTCCT GCTCTTATGT GCTGACCATT CG

SEQ ID NO:1184: (Length of Sequence = 335 Nucleotides)

ACATTTTGCA AACTCAGTTG ACTCACTCA NATTTGCCAT TCCAATTACA GGGCCTCGAA AGAGTCAGCA CTCAGCCTTG
CTCAAGGNTC AGATTTAGGG GTTGCCCCC GNCCCCGCAA CCTCCACCT ATTGTTTCAA ATGTCTTCAA GACAATCACC
ACTGTATTAA GAGAAAGAGG CATGGGGGCA GAGCAACAAG GAAATAAATG AGGCTTGAGA ACTGTGTCTA GGTGGGGTTA
CTTGAACCT TAAACCACC TTGGNCCCA AATCTGCATG AGCAGGGGT GGGCTATCAT GCTACAGANC CCCAAGGAGG
ACATTTTCC CAACA

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SEQ ID NO:1185: (Length of Sequence = 383 Nucleotides)

GAGAGGTGAG CAGGCGTGCG GGGGGGGGAC TTCTGCAGAG AAAATATTTT TAAAGTCATA AAACCATGAA AATAACAACT
 ACTGTACGTT TTATTTTATA GAAATCAAGT AGTATCTAAT AGACAAGGGA AGACATTGAT CCATAAACTT TTTAAAGAAA
 ATTTGGTAAT CTCTTAAAGT ATTTGTATGG CTTTGAATGG GTGTCCTTTT CTAACCTTGT TTTAATTTT ATGATACACT
 TATAATTGTT TCAAATAGGC ATTTGTINCAT TTTAAACTA CTAGAAGTTA CACTGAAGAA AAGCATTCAA AAGAAGACTT
 TTGGACAAA AAAATTGTTG AATGAGTGAA ATGCCTGAGG TAGCTCAATT TACCAAACAG GAA

SEQ ID NO:1186: (Length of Sequence = 373 Nucleotides)

GGGGCTCAAG GTGTGCATGT NTGAGGGAAG AGAGAGAGAG AGAAGGCCGC CTCANAGGTG ACTTTCAGCC TGCNAGCCTT
 CTTCCCGGGG CGCCATAAAC GCCCCCAATT TCCCAGCTGC TAAAGGAAGA GGAAGGTACC TGTCGTGCA CGCAGACGGG
 AAGGGCTGGG GAAGCGGGAG GACTGAGAAA AGCCAGATCT TAGCAAAGCA ATGTCTCAAG ATGGTGCTTC TCAGTTCCAA
 GAAGTCATTC GGCAAGAGCT AGAATTATCT NTGAAGAAGG AACTAGAAAA AATACTCACC ACAGCATCAT CACATGAATT
 TTGAGCAGAN CAAAAGGGC CTGGGTGGAT TTCGGAAGCT ATTTATAGA TTT

SEQ ID NO:1187: (Length of Sequence = 365 Nucleotides)

TCCACGCAAT TCTGAATAAA GTTTATTAAA TAATATGTAC AGCAAATGTA GTAATTCAAC ACATCTATTT ATCAAATCAA
 TCCACTGCAA TGAAGAAAAA TAAATGANCA GAAAAATCTA TGTCTGCATA GGCATGCTC TCAGTGTGTA ATTTAAATGG
 CAATACITTA AATTAATTGG TTATATATAA TGTCAGTTAT TTTCCTTTCA GAATATAACC TTTTGTGAG TAACCTATTC
 TAGCAATAGG GCTTAATACG NCTGCAGATA AATAGGNTCG CAAAACCAA AAACCCAAA TAATGAAATT NAAAAGGGGA
 AAAAAACTGT AACTGNGNTC AGAGTTACCT TTCTCCCCC ATAGG

SEQ ID NO:1188: (Length of Sequence = 350 Nucleotides)

ACTATGGCT TACATTTATT TTAAATTCA CTAAATACAA ATCTTGATTG TCATGCCAGT TTTAGATCTT ATTAATTTNC
 AGAATGGATA AATTCAAATA ATCATAAATT ACGGTAACCT TTTATTATAC CAAGGTGTTT TAATGCCATC ATATGANGAC
 AGATGCTTCA AACAACTGC ATTAAATTAT ATTTNNAATA AAATTAAAT CTATTTTAA CCTATTGTGA GTCACAAACC
 GAAAACGTGT CGNCTTTACC TTAGAGCTAA AGGCTTACTT TATGCATACG GGATATTTAA TAGTCTACAA ATCAAAGGT
 TAAACAGNCC CTTAAAAATT CCATATATTC

SEQ ID NO:1189: (Length of Sequence = 393 Nucleotides)

GCAAACCTTC TCACTTCCTC AAAGAAGAGT AGTGCCTAA AAAGAAGGTT GCACCCGGAG AGCATGTAAA GTGTCTCAAG
 GGGGACATCT GAAGTNCCTT GTTCCAGGG AGCCCACTGG CTCCTCACA GTAATCTAAT GAAAGCTATG CATTCTCTCT
 GGGCTCCTCA TATGAAAAAN CCCAATGTAT GANGCAAAGC CTAGAAAGGA TTCAATACTG GAGAAATGCA CACAGCTACC
 GATAAGACA GCTCAAAAGT CCTAAGGCTG CTGACATGAA CCAGATAATT GGTGGCTACA GTGTGCTG CTAAGATTTG
 GGTGCATGGG GCTTCGCTTT GGTAGCTCC CATGGTCTTC TTTTCCAAA AAAAAAAG AAGNCTTCAG GTT

SEQ ID NO:1190: (Length of Sequence = 365 Nucleotides)

AGTGTAACA TTCACATATT TAATAGTACC TTTAAATAA GCATTACTAC ATTTAAATG GTTCCAAAAT GAATCTATAA
 ATGGTAATAT AAATTAAAAA ATACGAACCT AAAGTGAATA AATTTTAAAC CTTAGCTATG GTATAAATAA TGGTAAATGT
 ATAGTGTACC TNIGAGTCAT TAAATGTCT TAAAAGATAA CAGCTTGTTA CCAGAACATT AGANACCATA GCCATGATTC

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TCAAGCGNTA ACAATCTACA TTGNTATTT NCTTGGCCAC TGCATTCTTC AAATGANTAA TAAATTTCCA GAATTCCCAT
TCCCATGGTG TTTTCCCAA TAGANCTTTT TCACACTCGA TGTTG

SEQ ID NO:1191: (Length of Sequence = 303 Nucleotides)

CCCGGAGAGC TGCCTTCCTC TTCTACCACG TGAGGACACT GCAGGAAGAC AGCTGTCTAA GAACTAGGAA GTGGGCCCTC
ACCAGACATT GAATCTGCGC TCCTTGAAC TGGACTTCCC AGCATCCAGA ACTGTGAGAA ATAAATTCAT GTTATTTATA
AACCAACCTG TCTATGGTAT TTNTGTAGC AGCCTGCAGC TCTCTATCAC TCTGTITTAT AAGAGGCTGA AGTTTACTTT
ACCTCAGGCA GAGCTAAGCA AAAAAGATTA CATCCGATT ACAAGATGAA AGTAAACAGA ATT

SEQ ID NO:1192: (Length of Sequence = 315 Nucleotides)

ACTCCAGCCT GGGGAACAAA CAAGCAAGAC TCCATCTCTA AATAAAAAAG AGTGTCCTCC TAAGATGCTC TCGGAAATAT
TGTAGACTGG TGCTCTCTT GGATGATGTT TGCGTCAGC ATTACCAAAA TAAACTTGCT CTCTGGGAAA AAAAAAAAAA
TAATAAATAA AATAACAGT AAGAAACACC CATAAANCA AATTTCTATGC TCCTGCAGCC TCTTTTGGCC TGAGCAAGTG
GGACCTGGT ATACACATCA CCTGTNCTTN CCTTTTCTT TGAAATGTTG TGTTTGCTGT TAAATGGGA TTGAA

SEQ ID NO:1193: (Length of Sequence = 313 Nucleotides)

CGAATTAGTG AACTGTGCTT CAGGTTGAGG AACCTGGTCT TAGTCTCTTG CCTGCTGAGA TTTTGAGTTA CAAGTAGAAT
TCTCCAAAAG CAAAACAGT AAAAGTCATT TTNCCACTCT TTTGGTCAAG CACATGTAAG CTTCAGGAC CAGGTGGTAT
GCCGTNCTG AAAGTGAGAC ACATGCCCCA GGGAAAGGT AATTTTAAAA TTCTTCCCAT AGGTCTCAT CCTGTCTCTC
TGCTATGTCC AGCATCTTN AGTCCAGCT GCAGGGCTA TATTTAAATA CCTCATGCT TTATCGCTTT TGT

SEQ ID NO:1194: (Length of Sequence = 341 Nucleotides)

GATTTAAAAG CAAGTATTT TNAATCCAC GAAAGATGCC TACCTTGGNT CCTNCTCTGG TCCTTATTAG CCACACCTCT
CTTGACAGGC AGAGGAGTTA GGAGTGAGG GATATTCCCA CCAAGACCCT ACAAAATGCA CTCTTAGGCC ATGCCCTGGG
TACCCAAACT CTAGAATTC CTCTCAAAG GGACCTAAC CCAACTTCAG AGCCTATATA GGCCAATTC TTGGTTCATT
TTCCAAGGG TGNCAAAGG ACAACCATTT TNGGGAGGN GANGGGAGTA GGATGAAGCT TTGGNCACGT GGGTCTTGGG
CAAATCCAC ATATCCCGA A

SEQ ID NO:1195: (Length of Sequence = 239 Nucleotides)

TTATTGATTC TTTTITGAA ATGGAGTCTC GCTCTGNNC CCAGGCTGGA TTGCAATTNC NCGATCTCAA CCCACTGCAA
CCTCCGCCCT CGGGGTTCGA GCGATTCTCC TGCTCANCC TCCTGAGTAG CTGGGACTAC AGGTGCGCGC CACCATGCC
AACTAATTTT GGTATTTTA GAGACAGGT TTCTCCATGT TGGTCAGGCT GTTCTCAAGC TCCCAACCTC AGGTGATCA

SEQ ID NO:1196: (Length of Sequence = 291 Nucleotides)

CCATGCTTGG CTCAGGGCCT GGGGCGGGT CCTGGGTAGA GTCCTAGCCC CAGAGCCCCA GCCCCTCATG TCCTGCCGCC
CCTCACTGAC CAGACGATGA TCGNNAACCT CTGAGAAAA CATGGCAAAG GATTAGAAAA GGGCAGGGTG AAATTNCCAA
GCCACTCAGA CGGAACCCAG ATGATCTTCA ATGCAGCCAA GGAGCTGGGT CAGCTGTCCA AACTCAAGGT TCACATGGTA
CGAGAAGAAG CCAAGAGCTT NACCCCAAAG CAGTGCGCGG TTGTTGAGT T

SEQ ID NO:1197: (Length of Sequence = 303 Nucleotides)

CTTCATATTT TTATAGCTGG GGTCAAAATA TGCAATTTAA AAATAAATAT ATCCATTNCT CTATTCTTAC ATTTATGAAT
ATAAAANTAA AATCTAAGAA ACATAATGCT GCCAACTAAT AGTAGTGGAG GAAAGGAAGC TGAGAGAAAG ATAAATATAT

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TANTTTAATC ATTACTCAGA AAAGGCAGTA AAAGATACTA TCTATAGCAG GCATCAATAA ATATGANCCA TGAGCCAAAT
CAGGCTTACC ACCTGATTTT NTAGGATAAA GTTCATTGNA AACACAGTTA CAGTGTCTTT CCA

SEQ ID NO:1198: (Length of Sequence = 318 Nucleotides)

CTCAATTTCT TCTCATCTTT TINATGCTAT TATTGTCATA TAAGTIACAT TCCTATACAT TGTGTGTCCA ACACAAATTT
AAAATTATGC CATTGTCTCT TAAGTCATAG AACAAAAGAG ATACAAACAA AACATACATT TATCCTGTCT TTTATATTG
CCTATGCAGT TACCTTTACC AGTGTTCCTT ATTTCTNCAT GTGGATCTGA GTTACTGTCT TTNAACTTCA ATCTAAAGNN
CTTTCAGTCT GAAAGACTGT AATTINAATT TCTNGTAGGG GTAGGTAAAC TAATGATTAA TTCTCAGTAT TCTGAGGA

SEQ ID NO:1199: (Length of Sequence = 326 Nucleotides)

TCTAGTTATT CTGAGAACTA CAACCAAGAA AAGAGGGAAG CACCGGGTTG GCCAAGGCCA TCCGGAGACT TGTCTGTCTG
GGTCATTTAA AAAGCTTTTC TAGGATAACG TTGGCTTTCC AAGTGGTTTT CCAAGCTGAT GTCTTTCCCA CTGAGGAGAA
GCTGTAGGCC TGTGGACTGC CAGGTAGGAG GAGGTTGAGG TTTAGAGGAA AGAGGAGAGC AGGAATGGGT TGTITNCAGT
GGGGCTGTTT CCATGGACTC ACCAAGAAGA AATCGAGGTG CTGATGGGGC TGCACAAGTG CTTATCAGAA ACAGCTGTAA
CAAGTT

SEQ ID NO:1200: (Length of Sequence = 341 Nucleotides)

GGGTGACAGA GTGAGACTCA GTCTCGCTGA AAAAAACAAC AACATTGCTT TACAGTGTGA TTCCAGTTAC AGAGAATATT
CACATAGGTG CATAAATAAA TGAAAAAATT ATTGGTTAAT GTCTCTGTAT GTTGGGATTC TCAGTGATTT TTTTTNCTA
CTTTTINATTT TINATAATTC CTCCAGTGTG TTGGTGTAG CTTTATAGAT TATATCAAGT AACCTTTTGC TGCACCAAAA
AACCCCCCAA ATCTAGTGA TTAACAACAA ACCATCTTAC AATTTTNNTC AGAACTGTCT AAGGCTGGAT ATTTTACTGG
GCTCTCTCCT GAATGTGGGG G

SEQ ID NO:1201: (Length of Sequence = 312 Nucleotides)

GTCTTTINITA CCCTGCTAGC AATAGCTCTC AGTTTCAGAG GCACAGTCTT TGGAGACCAT TCAGCACTGA GAAAGCAATA
TTTAGAACCT ATTGCAAAAC TGGGCTGAG TTAGGCATGG TGATGAATGC ATCAGCAAGG AATAGAAAGT NCTTATCGTG
AAACCCCTCA ACCTCAACTA TGCCTTCATA GACACACACG TTCATGCACA TGTAGGCACA TGTACCATCT CACATCTTTC
ACTTTCCCGA GATGCCATAT ACAATTACCT ACATTAATAN CTGTAGCACT ATACCTTTTT GAGCCCGAGA GA

SEQ ID NO:1202: (Length of Sequence = 344 Nucleotides)

GGAAATAGC CAGACTGGGT ATTATGCATG TAACAAATGA GGACATTGTG CATAAGAAAG GAAACATTAG TTTTCTGTCA
TCCTGGGCCA AGTACCTCAT TACAGTAAAT GTGTGTCTTT GGAAACTCTT TGCTGTINCT GATGGGGTA AGCATGGGGT
CCCAGGCAGG TTCAAAGGCT GAACTGTAAG AAATGGGCAA GACAATACAT TTTGTTTTGG AAGGAATTTT TCATGGGATA
AGTTTCCCAA AGCTTGAATT ACAGGCTATG AAATAAGCA AATAGATGGA GGAGAAAACA AGTATTGTTT TCAAAAAGGT
ACCAAGTCAA TTCTATTAA AGGA

SEQ ID NO:1203: (Length of Sequence = 370 Nucleotides)

GTCTTTTATC TTCTCTCTCT TATGTGCACT ATGTAATGTC CTCATCATTT TAAAAGTGAG TTGCTATTGG GCGGGGCGCG
TGGCTCACGC CTGTAATCCC AGAAGTTTGG GAGGCCAAGG TTGGTGGCTC ACTTGAGGTC AGGAGTTCAA GACCAGCCTG
GTCAACATGG TGAAACCCAG TCTCTACAAA AAACACACAC AAAAAATTAG CTAGGCATGG TGGCACACAC CTGTAATCCC
AGCTACTCGG GAGGCTGAGG CACGAGAATT GCTTGAACCC AGGGAGGCGG AGGGTTNCAG TGAGCCCAAG ATCGTGCCAC
TGCACTCCAA GCTTTGGGGT GACCAGAANC GAGACTTTCT CAAAACAAAA

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SEQ ID NO:1204: (Length of Sequence = 346 Nucleotides)

CTCTTTAGAA AGCCTGCCTT GGCTGGGCCT GTGGGCTCAC CTCTAATCCC AGCAGTTTGG GAGGCCAAGG TGGGAGGATT
 GCTTGAGCCC AGGAATTNA GACTAGCTGG GGCAGTGTAG TGAGACTTTG TCTCTACCAG AAAAACCGGG CGTGGTGGCG
 CATGCCTGTA GTCCCAGCTA CTTGGGAAGC TGAGGCAGGA GGGTTTGCTT GAGCCCGGA CGTGGAGGTG GCAGTAAGCT
 GTAATTGTGC CACTGTACTC CAGNCTGGGT GATAGAGTGA GACCTGTAT CAAAACAAAA CAAAAACAA AAACCTGCCT
 TCTNGGGAAT GGGCTTCTGG GTTTTT

SEQ ID NO:1205: (Length of Sequence = 292 Nucleotides)

TACAACGAGA CACTTGAGCA CACGGTACA CCCAGACATC TTCGGGCTGC TATTGGATTG ACTTTGAAGG TTCTGTGTGG
 GTGCCGTGG CTGCATGTTT GANTCAGGTG GAGAAGCACT TCAACGCTGG ACGAAGTAA GATTATTGTT GTATTTTTTT
 TTTTCTCTC TCTCTCTC TTAAGAAAGG AAAATATCCC AAGGACTAAT CTGATCGGGT CTTCCTTCAT CAGGAACGAA
 TGCAGGAATT TGGGAAGTGA GCTGTGCAAG TCCTGAAGAA GGAGATTGT TT

SEQ ID NO:1206: (Length of Sequence = 336 Nucleotides)

TTGCCAACAC AGTGTGTCAT GTTTATTGGG CTATTCACAG GTAAGCTTAA AATACAATGA AAAGAAAAGA CCAGACGTCA
 TCAGGAATGT CGAGAAACAA AATATTTAGC ATTTCTTAGT TTCAAATGTT ACCATTTCAT TGCAGCTGAG GAATATAGGC
 CATTCGTGTA CATAACTGCA ATGGGTGAGA CTTATTTTTA GCCACAGGAA GCAAATACAT TTAACCAATG ACTTTTAGGA
 CAGGAAGCAA AAAAGAAAAC AATATTTTCA TGTAGCAAGG ACAAGANAAT CATTTATACA AATTAAAGTG GATATTAAAA
 TACCATTATA AAGAGG

SEQ ID NO:1207: (Length of Sequence = 319 Nucleotides)

TGCCTCANCC TCCAGAGTAA CTGGGATTAC AGCGCCCCGC CGCCACGCCT GGCTAATTTT TGTATTTTTTA GTAGAGATGG
 GATTTTINCCA TGTGTGGCCAG GCTGGTCTCC AACTCTTGAT CTCAGGTGAT CCACCTGCCA CAGCCTCCCA AAGTGCTGGG
 ATTACAGGCA TGAGCCACTG CGCTGCCTC CATTTCTTTT TTATAATTCA TCCCTGAAGT CCTTAAGGT AGAGAAGCTG
 TTGATCGTC CCAGCCCCTG GGAGGCTGAA AGGTAACTIN ACCAGCTCCA TGCTGAGTT TAGCACCTGC TGTGCCAGG

SEQ ID NO:1208: (Length of Sequence = 357 Nucleotides)

GAGATGTTTA AAAATGAAGT GGAAGTTTTT TGTTTTTGT TGTTTTTTGC AGAAAAAAGA TTTTAAATGG CTGAATGTIN
 CTGCCATAGT TGGCTCAGAT TGTCAAAAA TTATGTTGTA CATCTGAGAG AGAAAAAGAAG AGCCTTTTGA GGAGCTGCGC
 TAAAATTATT TTTTGTITAG TCTCTTAACT CTTGGCTTGG AATGAGTCAT TGACTTTCCT TGCCAAGATA GGGTTAGCAT
 TTGTTTTGIG TTTTAAAAGC AGGCCAAGGG ATTGCCACGA GGGGAGACAA CCTGAGCAAC TGAAGGAAGG AATTTCTAGA
 AATGTGTTTT ACCAGTTGTT TTAGTCTGAA TGIGATT

SEQ ID NO:1209: (Length of Sequence = 362 Nucleotides)

CCCATCTGCT CCACCCAAAG AAATCAGACA AAGTAAATTT TATTGAGACA GACAGAAATG CACCTACTCA GGACTACAGT
 TAAGCATTTA CTATTAACCA AAGAGTTGTG TTCACATTCC AGATAAGTCT ACGTGGAAAA GCATTTCAGAA TTTACTAGGT
 TTTTINCTACA TCACTATTTC ATCTACAATA GGGACAACAA ACTGACACTC AGGATTTGAT GGGCTCTCAT TACAATGCTA
 TACATTTAAC AGGGNCAAAC ATCAGTGAAT TTGAGGAAAA AGTTATAAAA NGACCAAAC CACCCACTGT AGGATGGGCT
 CTGGATGTT ACTGTACAGC GTGGGTCAAG GTAACAAGGA GG

SEQ ID NO:1210: (Length of Sequence = 349 Nucleotides)

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GAGAAGATAG TAGAGAAAGT CAGCGTTACA CAAAGGAGAA CCAGSAGAGC TGCTCTTTTT GCCGCAGCTA CCACTTCCCC
TACTCCCGA ACTACAAGAG GTCGTAGGAA GAGTGTAGAG CCACCTAAGC GTAAGAAGCG GGCCACAAAG GAGCCCAAAG
CACCAGTCCA GAAAGCTAAG TGTGAAGAGA AAGAGACTCT GACCTGTGAG AAGTGCCCCA GGGTATTTAA CACTCGCTGG
TACCTGGAGA AGCACATGAA CGTTACTCAT AGGCGCATGC AGATTGTGA TAAATGTGGC AAGAAGTTTT TCCTGGGAAG
TGAGCTGTCC CTTACCAGC AAACAGACT

SEQ ID NO:1211: (Length of Sequence = 344 Nucleotides)

TTTTTTTTTT TTTTTTCAGG GAAGAGCTTT ATTGCTTCCA TGGGGGTGGC CTGGGACGGC TGCCACAGCT TGGGTAAGCT
CCTTGGGCCT CANTTCCCTT TGGTCCAGGC TAAAGGCAGA ACCCAACCAC CTGGCAGINT TGTGTCTGAA ACCTAGAACA
TGTGGCAAGT TGGTGAAGTC GGGCCTGCGG TAGTCTATG GNTCAGCTGC AGCTGTGGAG GGGAGCTCTT CCCAGCAGGC
GGANTGGGCG TCACCCTCCT GAGCTTTAAA GTTCTTTCTG CTATAGCCCT GGGGCGGTCT TGTGGCTCC GAAGGAATGG
GCTCCAGGGT TTCCCATGG GACA

SEQ ID NO:1212: (Length of Sequence = 364 Nucleotides)

AAAGAAAACC TGGTATTTTC ACCATCCTCT CTGAAAATAA ATACTTTGAC TTGCACTGAT TACTACTTCA TCAGCATTC
ACTCCGCTCC GTGGCACTCT GTGTGAATAA TTTTAAAGGC AGATTAAAGCA TTCTAAAAAT AAATTCTATT GGTAAATTAG
GATATCAGAT GCTTCCATTA TAAAAGCCTA TCCTATTCTG TACTCTCAGC TGGCAGTCAT ATCCAGATCT CAAGCTACTC
TGGCTCTTAT TGAACAAGAA CCTATTCCAG GNGTGAGGT TTTGAAGAGG GGATCTCTCA TGGTTAACTA GAGNCAGGAA
GAGGCAGAAT TGCCACATA CTCTNGCAGG AGTTAAATAA CAAT

SEQ ID NO:1213: (Length of Sequence = 302 Nucleotides)

CTAATTTTIG TATTTTITAGT AGAGACGGAG TTCTACCATG TTGGCCAGGC TAGTTTCAA CTCCTGACCT CGGATGATCC
ACCCGCTCG GCCTCCCAA GTGTGGGAT TATAGGCATG AGCCACTGTG CCCGGTTACT TTTTCCCTTT TTAACACT
GAAATTGCTG TATCTACCAC ATTAACATT TATTTAAAAA AATTGTGTTA ATAGCATATG TATGTAAATT TAATATTAAT
ATACCTCTTT TTTGTCTCTT CTTAGGTGG TTGGAGCCTA GGGATACTTA CTTACTGATT TT

SEQ ID NO:1214: (Length of Sequence = 317 Nucleotides)

CTAATTTTNC AGACAGGTTT ACATGTAAAA GGCTAGGTAT TTAGCCACCT CAGCATTGAT TAGTTTGGGA TGTCTAAGCT
CTGTACACA TGGCTTCCCA TGGCTTCACT CTACAAAACA TATTINCAAC GTGAAGGNTA CATCTACAAG AAATCTACAT
TTCAAGGGIT TTACAAATCA ATCTTGATC TTTCCCTGA ATTGACTCTC ACAGACCCCG TCCCCTTGIN ATTNCCITTG
CCCAGCTTAA CGGTCCAAAG TCTACTTAAA TGCAGCTCAA AAATGTTAAG ATTGGGCAAC AGATTTACAG TTCCTGT

SEQ ID NO:1215: (Length of Sequence = 276 Nucleotides)

ATAAGGTATT AAACAATAT TCTTGTACTT GANTTAAAA AAAATCAAGC TGGGTGCAAT TGCTCATGGC TGTAATCCCA
ACACTTTGCT AGGGTTAAGT GAGAGGTICA GCCCAGAAGT TCAGTACCAG CCTGGGCAAT ATAGTGAGAC CCCTTCTCTA
CAAAAAAAT GAAGAAATTA GCTGGGTATG GTTGCAATG CTGTGNCCT AGCTCCTCGG GAGGCTGAGG CTGGAGGNTC
ACTTGGGCCC AGAAGGTCAA GGCTACAGTG AACCTT

SEQ ID NO:1216: (Length of Sequence = 354 Nucleotides)

GCATAGGCAG CCCCTGCTCT TGCATTIACC TCCCACTGA ACTAGCTGCT CAGTCATTGC TCTGGAATAT GGAGTTGTGA
TCTAGAAATT AAAGATGGGA TTAGGTAACC AGTGAGGTCC CTTCTACTGC CAGTGATGTA CTCTCTCTT TGTAATGTC
ATATGTAGGG TTCTGTACAC AGGACATTTT CTTCAITGTA GTTCTCAGA TGCATTGAGC TCTCTGAAT GACTTAGCGG

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GGAAGCTCAG TTGCAGCTGA CCGTATTAAG GGTCTCTCC CATGTGCTG TGCCCGCTCG TTAGCGTAGG ATTCNTGCCC
CACGGCCCTT CCTGTTTTCT AAGGGCTTGG CTTT

SEQ ID NO:1217: (Length of Sequence = 272 Nucleotides)

CTTCCCAGCT TTGCTTGTT GTAAACAGCT GGCAGTGGT ACATCTATAT TTGTTAAGAG GCAGAGCACT GTATTTTG
TAAGATAAGG TGCTAGTCTT GGCCAGGCTG CCAAGCTGGG GCTNTTTAAA ATAAAAGTTT TAAAGAAAAA TTATAGCATA
ATAAATTACA CAATTTTATT GGAAACTGA AGGTGTTCAA CCAATGCTAG TTTTTAAATA TATTTAGAAA TACTATTTCA
GGAAATTTTA ACTACACTCA TTAGTCTTAT GG

SEQ ID NO:1218: (Length of Sequence = 281 Nucleotides)

GTGCCCAGG CTGCAGTGA CTGTGCAAA CGGGCTCAC TGCAGCCCCA ATCTCCCACT CTTAAGCAAT CCTCCACCT
CAGCCTCCTG AATAGCTGGG ATTACAGGTG TGCACTGCCA CACCCAGCTA ATTNCITTA TTTGTTTTAT TTTTAGTAGA
GATGGAGTTT CGCTATGTTG TAAAGGCTGG TCTGGAAGT CTGGCCTCAA GCGATCCTCC CGCCTTGGCC TCTCAAAGT
CTGGGGTTAC AGACGTGAGC CACCATGCTT GGGCTGCTC A

SEQ ID NO:1219: (Length of Sequence = 231 Nucleotides)

GTCTCTCTC CCTCCTCCC TTTATTTGCA CTGCCCGGAA CCAGGCAGCC AGCAGGGGAT GGGATCAGGA TGCAGTTGTC
ATGGAACCG TTGGGGATCC ACAGGAACGA CATTACATA GGGACATTN TGAAAGCAA GCAAGAATGA NTGCTTTCCC
GATCTCAGAC TGGCTGGATT CAGATCATG TTTTGGCTGG TTCTATTTT AAGGGGTAAG CAGTTTGCTA T

SEQ ID NO:1220: (Length of Sequence = 409 Nucleotides)

AGTCACTCAG AAACCTACTT TGCTTACAGC CTCATTATG TTTTTGTAT TTGTTAAGAT ATCCCGTGTG ATGACATATT
TIGCCCTAAA TTINCTAATT TTCTGGCCA TGCTTTCTT GTGATTGAA AATGTTACGG TAAGTGCTTA GTTTGGAAAC
TATACTGTCA ACATATATTG CATTACTTCA GCAGAGCTGT AGTTCCATAA CATAATAAAA TGATGCTTTT TTTAATAAGA
AGATCATACA CATTTTCTTA TGCCCTAAAA GATGAACATT CAAAGTTCAC TTTCTCTTG TTTGATATG ACGGATATAT
ATCAGTAAAA TAAAAATGC TGCAAGACCA ATATGCACTA ACTCAAACAT GCTGTGGATT TGTAGGGGCA CTGAGGTAGC
AATGTCAAG

SEQ ID NO:1221: (Length of Sequence = 396 Nucleotides)

ATCTGAGATA CTTTGTCCTC ATGAATAAAT TAGTTAGTAG AATCTAATTT CTAGATCCTT CATAATGGTA ATTGAGGGTA
AAAAATAATA ATGTAGTAGT CAATTTTAGC CCTTTAAACC TATGGGGAAC TGTATGAATA ACTGTTTGAA ACTGCAGGT
AATCCTGTCA CACTTGCAA CACATAGAAG CAACAAGACT ATTTCTCTC AACTTTTAA TTAATAAGT GCCTGAGTAG
ACTTCAGGG TAAGGTTGAG AAATTTNCTT TCTAATTTCC CTGTTTAAAT GACCACTACT TTAAAGCTA TGCTGGGAAT
TCATTTTAC ATATATCTAA CTTACAGGAA ATTTTGAAG AGCCTAAATG TCTATGGGTA GATTCATGT TTCCTT

SEQ ID NO:1222: (Length of Sequence = 350 Nucleotides)

GTATTTNTT CTGGGTACTC TTCATGGCCT GCTAGAGAAC TTTACTAAAT TATAGTCCAG TAGCTGGACA GAGCTGCATG
TGTATTGTCT AAGTCCACCT GTGCTGCTGG TCAAGATTAT TTTGCAGTGT TTGGTGGTGT TGAAGAGGAA TACTGTTGTG
AAGGCTGAGT CAACTGCATG ACAATNCTCA TGGCTCACTG GCTGATGAGT TGTGGCATGA CTAGAAAGCT CTGCTTGTAT
TCCCAGATGA CAAGTCACAC CTGAACAGCT GGATACTACT CGCATCCAAT TTGCTTCCA GTTAACATAT TTNCAGAAAA
TATTTGGATT TGGAGTACAT ACAAATATTT

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SEQ ID NO:1223: (Length of Sequence = 370 Nucleotides)

ATAAGCATAT GANTTTATCT ATAGGCCAAG TTAATGACAT AACTACAAAG AAATGACTTG TTTCACATGT TTAAACCAG
 TGTTTTGGCT ATACTAAGTT AGTGAGACAT ATTCTAAAGA AAAATAGAGA CGCAAAGAAG ATCTTACACT TTAATAGTCA
 ATTTTGTAGT TGTAATATTA CTATCGATCA TTTTGTAACT CTCCTATATA GGGTGTAGGA TGGTGGAAAT AAGTAATTTT
 NTTAATGTTG TTAGGAACCA AGGCTATCAG TGTAAAATGA AGGAGTTACA AGCATAAGAT TGANAGACGG TAAGTAAAAA
 GCTCATTAGT ATAGTTCCAA GTTTAACTTG TCAGGGATGA GTCATGATT

SEQ ID NO:1224: (Length of Sequence = 188 Nucleotides)

ACATGACCNA GGCTGACCA AATCAGACTA AATCCTANTA CCTATACCAG AGTTATTGAG AAAGATAAGN TTGGCCTGC
 NGGCCTTTGA CAGTGAAAGG NINTAGGCTT TGGAGCTCCT CAGGGCCACT GCTTCAGGGA ACCTTGCTGA CAGTGAAGCC
 AACACAGATG AAAGCAAGGC CAAACATT

SEQ ID NO:1225: (Length of Sequence = 353 Nucleotides)

CCCCAGCCAA GGGAGGCGT NAGTNAGTGT GGTACCCAGC GTGGGAAACC GTGCTTTTIN CCATGGINACT NTGCAACCCA
 CGGATTAGAA GATCCCACTC AGGAACCCAC GNCCTGGNA CCTAGAATGC CAACCCAGGA GCTGCACAGA TTCTAAACAA
 CCTCTCANCT GGAATCTGCC TAACCCTGCA GAGCTCCTGC GGGGAGGGGT GACCAGTGC ACANCTGCTG CTGCCTGCTG
 CCTAAGCCAT TTAA

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CAAAAAGTTA GAAAAACATG TAAACGTAAG TNATGAGGTA TTTCATAGAT ACAGTGCCCA TACAAATNCT CTTTCCACA
 ATTTTCAACT GCCAGATCTC TTGCTTTAGT CTTTTNCCT TATATTGGA GAAACAGAAG AGTTTGACAT AAAAGTCCCT
 TTGAGGATGT GAGGGTTGCA GTAGTTTACA GCAGGGTCAG AAAATGAAAG TAATAAAGCA ATATTTACAT GTTTTGTAT
 AAGACCAAAA ATATTTCTT AAAAAGTTGT TAAAGTTTT TTAGTCCTAT AAACACTCAC TTTTATAGGG CACATGATTG
 TCTGTGTGAC TTCTCTTCC AGAGGAGGAC TTT

SEQ ID NO:1227: (Length of Sequence = 352 Nucleotides)

GGCATCTGTT TTTTGTGTTG TTTTGAGATA GAGTCTCACT CTGTCGCCAG GCTGGAGTGC AGTGGCGTGA TCTCGGCTCA
 CTGCAATCTT TGCCCTCCCG GTTCAAGCGA TTCTCTGCC TCAGCCTCCC AAGTAGCTGG GAGGTGTGCA CGCCACCACA
 CCCCGTAAT TTTNGTATTT TTTGTAGAGA TGGGGTTTCA CCATATTGGC AAGGATGGTC TCAATTTCTT GCGCTGTGA
 ATCCGCCCGC CTCAGCCTCC CCAAGTGCTG GGATTCAGG CGTGACCAG GCGCCCGGCC GGNATCTGTA GATTTTAAAA
 GGCCCCAGTG GTTCTNATGC ACACCCCCAG AG

SEQ ID NO:1228: (Length of Sequence = 387 Nucleotides)

AGTTTCCAA GATTGAGTGA CACTATTGTA ATGAGAATCT TCACTGGAGC ATCAGAAGAA CTGATTTCAA GCCAGTTTTG
 TTGGTCAGCA CGGTCAAAC TTCAGAAGAA TCTTGTGCTC TGAGGCTTTC CAAAGCTTTG TTCCCAGGG CAGTAACAGC
 TTCCAGTGTG GGCAGAGTCT TTAGTATTAT CACCAGGGCA GCTGCACTGT GGCTGTAGC CATCTTTCTC TTTTAGTACG
 ATCCCACCTG TCAGACTTCT TGAATTTGCA CTTCAAATTA GAGCCACAAT CAAATTATCA GTCACGNTGT TTATTTTGT
 CACCAGAGAA AGGACAGAGT CTGTTTCAGC AGAGTTTGGG GCCAGGTACT GATCTCTCTT CAGCAGG

SEQ ID NO:1229: (Length of Sequence = 366 Nucleotides)

307

CTGATAAGGA GGTAAITTTCA TAGGAGCTGC TAAGATGGGC ATGAGGNTCA AACTGCAAAG CACCAACCAC CCCAACCAACC
 TGCTGAAGGA ACTCAACAAG TGCCGGCTCT CAGAGACCAT GTGCGAOGTC ACCATTGTGG TGGGGAGCCG CTCCTTCCCG
 GCCCACAAGG CTGTGCTGGC CTGTGCAGCT GGCTACTTCC AGAACCTCTT CCTGAATACT GGGCTTGATG CTGCCAGGAC
 CTATGTGGTG GACTTCATCA CCCCTGCCAA CTTTNAAGG GTTCTGAGCT TTGTCTACAC TTCAGAACTC TTCACAGACC
 TGATCAATGT TGGGGTCATC TACGAGGTAG CTGAGCGTCT GGGTAT

SEQ ID NO:1230: (Length of Sequence = 343 Nucleotides)

AGTGGAGAGA AGCCCTATGA ATGTTTGTAG TGTGGGAAAT CGTTTTGCTG GAGCACAAC CTCATTGAC ATGCCATTAT
 CCACACTGGA GAGAAGCCCT ATAAATGTAG TGAATGTGGA AAGGCCCTCA GTCCGAGCTC GTCCCTCACT CAGCATCAA
 GGATGCATAC TGGGAAAAAT CCCATCAGTG TAACAGATGT GGAAGACCT TTTACAAGTG GACAAACCTC AGTTACCTT
 CGAGAACTIN TTTTAGGGAA GGACTTTTGT AATGTAACCA CTGAGGCAA TATTTTCCA GAGGNAACAT CTTCTCTGCTG
 ATCTGATCAA CCATACCAA GAG

SEQ ID NO:1231: (Length of Sequence = 406 Nucleotides)

CTCTCGCCGG GCAGCTTGA GAAGGCGCAA TACTCTCCAG CTCCACCGTT ACTTCAGCAT GGCTGGGGAG GCCTTGAAAA
 ACTTATAATC ATGGTGAAG AGGAAGCAA CATGCTCTTC TTCACATGAC GGCAGGAAGG AGAAGTGCTG AGCAAAGGGA
 GGAAAGCCCC TTATAAAACC ATTAGATCTT GTGAGAACTC ACTATCATGA GAACAGCATG AAGGTAAACCG CCCCATGATT
 AANTTACCTC CCATGGGCTC CTTCCGCAA GACGTGGAGA TTATGGAAAC TACAACCTCA GATGAGATT NGGTGGGGAC
 ATAGGCAAAC CATATCAATG TACATGTGTC TTTATGGTAG AATGATTTAT ATTACTTTAG GTATATAGCC AGTATTGGGA
 ATTGCT

SEQ ID NO:1232: (Length of Sequence = 380 Nucleotides)

AGACCATCAA AGGCCAGAG GAGAGACTCT TGGGACAAAT AAATATTTAA AAGCAGTTGC CTATGAGAAA ATGGAAAAAG
 CCACAAGCAA AGGTAAGATC CATGCTCCAA AAAGGCCCTGA GAAATCTTA AACCTTCTCC TCAGATTGAT CCCAAAGCTT
 AGAACGAATA CCAAGATAAT AGCAAAAATC CTCCCTGGAA AAGAGTCAGT CTGCAAAAC CGGAAAAGGA GGTGTGTTTT
 TCCACAATGC CTAATTTCTA ACAACAACAA CAAAACTCA GAAACATGG CCCAATAAGT GGAAGAAAAT AAAGTGACGG
 AAACCTTCCC CGGAGGAAAC ATAAGCTTCA GGCAAACTAG ACAGATTTTA GACTGTCTAA

SEQ ID NO:1233: (Length of Sequence = 357 Nucleotides)

TTCAAAGTTT ATCACAACCA CCACCATCAA GACAGCAAAC CAAAGGGGCA TGGTAAAAGA AAGTTCCAGT GACTCTGGAT
 TTGGTTCTAA TTTAATGCA ACTTCTTGAT TGAGTGCAAG GTGAGCACTA CTTGGAAGTG GCTTTGGCGT TTCANCGGTG
 GGTAAATGGAG ACATTGCCAA ATTTATATTC TGTAATTTIN CGTTGGGTGA GGGGAGCAAT ACATCATTTAT ATAATGGTAC
 TTCCTCAAGT TGCTGGTCAT CAGTTTCTGT GTCGTTGCTG CCAAAATCTA AAGATATGAT TGTNTCTCCA GCGGCTGGGG
 CCAGCAAAGT TAAAGCATCA GGTTCCTTCT TAAGTTT

SEQ ID NO:1234: (Length of Sequence = 313 Nucleotides)

CCAAGAAATC TTAATINCTT TATGTGTTGA CTTTTTGACT CAACAATTTT TTTAAACTT TTTGTTTTTT NCTGAAACGT
 TCTGTGTGTT ATGAGCCTTT TGTGTTGINC TCGTTAAATG CACTCGACCC AAAATTTGGT TGGCATATCG AAAAGGAGAC
 CAAGGAGGGA GGGGCTGGGG CGTGGGAGGT GGGGAGGAGG CCGAATGGA CAGAAAGTTG AGGATAAGAG AAGAGGAACA
 TAGAGACAGC CAGAAAGACA TGGGGAAGG GTGTTGGAGA CAGAGAAAGG GGAAGGCAAG GGAAGCCAA AAG

SEQ ID NO:1235: (Length of Sequence = 386 Nucleotides)

308

CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGINCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG
 CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTIG TGA CTCTAAG CTCAGTGCTC TCTCCACTAC
 CCCACACCAG CCTTGGTGCC ACCAAAAGTG CTCCCCAAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA
 TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCCTGGGTA ATTTTGTAT TTTTAGTAGA
 CACGGTTTCA CCATGTTGGC CAGGCTGGTC TGGAACTTCT GAGTGTAAT GATCTGCCCA CCTTTG

SEQ ID NO:1236: (Length of Sequence = 401 Nucleotides)

AGGATGTACT TCTAGTAATG TCACGTAAAG CAGATATCAA AATTCATTAC CAGGAGTACT TTGCTGTGA ATGGTTCCTG
 TGCCATACAG AGATAAGATG GAGTCTTTGG AAAGTTGTTT CTTTGCCACT TCTTCTGATT TTNTAGTTTG CTCAGTGAAT
 AAATCTAGAT CCCAGATGT TACTGTAGAC AGGGTTGCAG CTGCTGGTGC AGAGGGTGTG CCTGTAGACA AACACCAAAA
 TAAGCTATCA AATTCTGCAT AGTAAAGCGC ANTTAATCCA TTACTTAAAA TCCAAATAAA GTTATAAAAT TAGATAGGAA
 TCAACAATT GTAGAAGTA AAATGGTGCC ATTCAAGAGG ATCACTTACA AGCCCAGCCC ATATAAAACC ATCTACAATC
 A

SEQ ID NO:1237: (Length of Sequence = 372 Nucleotides)

TTAACTCTTT CTTCTCTCA GTCCGATTAT AGAGTTGGAG CAAATGTCAT GATGANCITT NAGGCCTAGG CCTGNCCTCT
 TGAGGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT TTCTTTCTCC ATAATAGTCC CAACCCTAAA CAGGGGTATG
 GCACAGTACT TCTTATGAAC AAAAGTGCTA TTGGTCTACA AGGGGACTTG AGCCTGCACT AATTGTATTT GATTAGGATT
 TTGTGCTGT CTGTATGATG TTTAACCACA CTGTCAATTA CAGACTTCCT TTAAGGAATT TCCAGGAAAC CCCCTTACCA
 TAAGAGTTTA AATTAATAGT TTNTAGTTT AATGACAGCA GTTGGTAAAG GA

SEQ ID NO:1238: (Length of Sequence = 304 Nucleotides)

GGACAAAATT CCAATTATTG TAAATGTAAA AGAAAAGACA ACAAATAA GCTAGAAAGA TGAAAGCTAA AAATTCTATT
 TGAATATGT AAGATGATGA CAGATATTAA ACAGTAATTA GTCATGAAAC AATCATTTAA ATGCTTTTNC CAGGGGAATC
 GCAGAAGTTG AGACCCTCAA AGAGCATGCA AGCTAGTAGG GAGGCTGCGA CTCATACCTT TGAATCTTTC TGTTCTGCAA
 ATTCTCAACT CTTACCAATT TAACTCTGCA GTACTGCTAT GGAAATTACA TAAGAGTAAA TTGG

SEQ ID NO:1239: (Length of Sequence = 389 Nucleotides)

TGTTATAACT GGCACTTTAA TTGTTTTTGG GAACTAGAAT TTAGGGGCAG TTGGATGAAA TTGCAAATTT AGAAGGGGAA
 TAAGAATTTT CTAGTGCTAT ATAAAGAAAT GATGATGGAG ACAAAGCCT TGCTTCTCTC TTTTAGAAT TTATTTCGA
 TTTTACCAT ACTGTGGGGC TTTTAGAGCT AATATGATCT AAATNCAGAA AATTTAATTT TCATAGTAGG CCAGGTGTGA
 ATTACTTATG TTTGCTATAG AATGCTTATT TAGACTAACA ATAAATTTAC TTTGCTTTCT AAGGCCAGTC AGCGAATGTG
 GGGATGAGGC AGGATGTTTT AAATGAGCCA GAGATGATCC NCAAGGGGAA CAGTCGACAC AGAGGTCTT

SEQ ID NO:1240: (Length of Sequence = 365 Nucleotides)

CTCCAGCCTG GCGACACAG CAAGACTCCG TCTCAAAAA AAAAGCCTTC CTTGCCAGGT GAAAGCAAGA GTGGTATGGA
 ACATTTATTT AAACATAAGA AGCAGAAGGT TCTCCTCTT GCAAGTATGT TTTCTCTAAA TGTAGCATTT CCACTGGAGG
 AGGTGGTCTG GGTGGATGGT TAATATGTGA GGATTGTNCA GCCAGGCAGA TAACCAGGCC TCTGCATATA CAGATACCCA
 CAGCCCAGGA ATCTTGAGAA CTGAATGGCC CATAACAACC TCTGGCACTA TCGGAGCTGC AGGGAGGCTT GGCTGGGGCT
 ACTCCAGTCT CAGGCCCTTG TTTTATGCGG GAAGTCACAA GGAGG

SEQ ID NO:1241: (Length of Sequence = 350 Nucleotides)

GGGGAGGCGG TAGGGTCTGC NCTGTCTGTN AGGGGCTTGT GGCTTGGCGG GTGGGCTTTG CATGGTCTCG CCTCTTGAGT
CCAGCCCOGT CCTGATGGGG CAGACTTCTG TNCGTNCTGC TTCTTGGGTG ATGTCAATAC TGAATGAGAG GGCAAGAGAA
GGGGAAGGG AACCGCCCAT ATGTNCTTCA CGTGTGCAA GGGGGCTGTN TGGTTCCTCAT GAAATGGTCA GCAGAGACTT
TGGGATGGGT ATGACTCGTG GGTACAGGG TTGACTAGAC AGAATCTAAA GAAGGTGGGT GCTTAGCTNG GAAGTCTTCA
GTAGGAACGG ATCACTGTGA AGCTCTAGGG

SEQ ID NO:1242: (Length of Sequence = 392 Nucleotides)

CTCTTACGAG TGAGGTAAAG TATTGAACAG ATATTTAAAA GCTATAAGCT TTAAACAGA ATAGGCATAT TGCTGATACC
AGTATTTGAC AACCGCCTTG TTTTTCAGA TAAGAAACT GAAGCACAGA GACCATAAGG CATCAGCCTA TGGTCATTCA
CTTCGTGGTA GTCAGGTGG AGGTACACC AAGGCCCTCT GGCTACTGAT AATCTCTGTA CTAGGCTGCT TTTCAGTAAA
CTCTTGAATG AATGAAAGAA AGAACACATA CTGTTGACTT TTGAACCTGA ATCTAAACAA AACCTATGTT GAACTTTAAG
TCTGTAATCT AAGAACTATC AAACITAAAC TTGTACAAA AGGNGGTGAT GAGCACACC ACTTTCITTT GG

SEQ ID NO:1243: (Length of Sequence = 377 Nucleotides)

GTGGGGCAGG CGTGAGGTAG GGGTGGGGTG GGGATGACAG TCAACACAGC TTGGACCAGA AGCCCATGGC GCCTGNTCC
CTGGAAGGC ACAGGGCACA GACGGATGCC GCCTTNTTG CTGGGACACT CCTGCCACCA TCCACAGCTC CCCCCTCACT
CCACGTTCTT GACTTGGTG AACAGGTGT AAAGAACCCT CAGGGTGGAT TTNAGGTCCA AGTTAACCAC GTCTTCAGGA
CGAGCCTTGG GTTNTTNAG GCCTCGTCC AGCATCAGCT CAAAGGCGAA GGACACATN TGGACCTTCT GATCGAAGCT
TTCCGGAGTC AGGTAGAAGT GGTGGAGAGG AACAAAGTAG TCTTCCAGAA GGCCCAT

SEQ ID NO:1244: (Length of Sequence = 312 Nucleotides)

ATTTTNCAT CAATGTTTAT CAAGGATATT GGTCTAAAAT NCTCTTTTTC AGTTGGGTCT CTGCCAGGCT TTGGTATCAG
GATGATGCTG GCCTCATAAA ATGAGTTAGG GAGGATCCC TCTTTNCTA TTGATTGGAA TAGTTTCAGA AGGAATGGTA
CCAGCTCCTC CTGTACCTC TGGTAGAATT CGGCTGTGAA TCCATCTGGT CCTGGACTTT TTTTTCGTG GTAAGCTATT
GATTATTGCC TCAATTTTCA AGCCTGTTGT AGGTCTATTC AGAGATTCAA CTCTTCTG TTTTAGTCTT GG

SEQ ID NO:1245: (Length of Sequence = 320 Nucleotides)

GGAGATCGTG CACATCCAGG CCGGCCAGTG CGGCAACCAG ATCGGGCCA AGTTCGGGA AGTCATCAGT GATGAGCATG
GCATCGACCC CAGCGGCAAC TACGTGGGCG ACTCGGACTT GCAGCTGGAG CGGATCAGCG TCTACTACAA CGAGGCCTCT
TCTCACAAGT ACGTGCCTCG AGCCATTCTG GTGGACCTGG AACCGGAAC CATGGACAGT GTCOGCTCAG GGGCCTTTGG
ACATCTCTTC AGGCCTGACA ATTTTCATCTT TGGTCAGAGT NGGGCCGGCA ACAACTGGGC CAAGGGTCAC TACACGGAGG

SEQ ID NO:1246: (Length of Sequence = 275 Nucleotides)

TTTTTTTTT TTTTTTTTT ATCTGACAGC AATAGATTTA TTAAGTATCC CGAAAATAT AAACACAAAC CAGTAAAAA
CAAAACCGTA AAACGTCAGG CCTGGAGCTG CAATAAGACA GAGACAGGAG CAGCTCACAC GTGGCCTAGG TGGGGAGGAC
GAGGCCATAA ATACTGCAGG AGGGCGGCAA GGGAGCCCTA GGGCGAGGGG AAAGCAGGGT NTCGGCAGCG AGATGGCTCC
GGGGGTTAG AACTGCTGG CTTCGGCCCC GGGCG

SEQ ID NO:1247: (Length of Sequence = 384 Nucleotides)

310

GGTCTTGCCG GAGAAGTACC CCCCTCCAAC CGAACITTTTG GACCTGCAGC CCTTGCCCGT NTCTGCTCTG AGAAACAGTG
 CCTTTNAGAG TCTTTACCAA GATAAATTTT CTTTCTTCAA TCCCATCCAG ACCCAGGTGT TTAACACTGT ATACAACAGT
 GACGACAACG TGTITGTGGG GGCCCCCAGG GGCAGCGGGA AGACTATTTG TGCAGAGTTT GCCATCCTGC GAATGCTNGC
 TGCAGAGCTC GGAGGGNCGC TGTGTGTACA TCACCCCAT GGAGGCCCTG GCAGAGCAAG GTATACATGG ACTGGTACGA
 GAAGTINCAG GACAGGNTCA ACAAGAAGGT GGTACTNCTG GACAGNCGAG ACCAGCACAG ACCT

SEQ ID NO:1248: (Length of Sequence = 225 Nucleotides)

AAITTTGGAGA AGATAGAAGT TTGAAGTGA AACTTGAAG ACAGAAGCAC GGAAGGCGA AGAAAAGAAT AGAGAAGATA
 GGGAAATTAG AAGATAAAAA CATACTTTTA GAAGAAAAAA GATAAATTTA AACCTGAAAA GTAGGAAGCA GAAGAAAAAA
 GACAAGCTAG GAAACAAAAA GCTAAGGGCA AAATGTACAA ACTTAGAAGA AAATTGGAAG ATAGA

SEQ ID NO:1249: (Length of Sequence = 393 Nucleotides)

CATCTATAGT CCATACATAT CTATAATGGA CAGAAATATG AGAATGAATA AGCAAAGATA CTTATGTACA CCAATAATAA
 AGTAAGAAAG GTAAAAAAT TCATGTAATA AGAAAAATA ACAACCCAGA AATTTAAGAN TTAAGTAGTA GTCAAATCTA
 ATTGGAATAA CTCACCTATA TAAANACAA GAGGAAGGAA ACTTTATACA TAGGTCTGGA AAATATCACA ACTATGTTCC
 CAGAAGANTG TTTATCTCCA CAGCATCCAA CCTAGTGTCA TGCACACAGT TGGGACTCAG CCACTGTGTC CTGATTGATT
 ATGAAGNCAG TCACTGTGAT CAACCAACA GTAATTGAAC GTTCATTTTT AATANGGTCA GTGTTAAATC TGT

SEQ ID NO:1250: (Length of Sequence = 391 Nucleotides)

CGTATGTATC TTINATTTAC ACTGCACACC TTGCAGCATC CTTACCTTGC AGAGTACTGA GTCCTGGCTT CATGAATTTN
 ATGTCAAGTA AATGGGTTTT AGTCATCCCT AGTTCATGTG CATGTNCCGA GAAAAAGGGG AGCTTCTAAA ACATGTGCGC
 AAACACAGG AAACAGTGCA ATCTGTGTG TCTCTATTTC CACTTACTCC TCAAGGCCCC AAGGTAGGAC GCATGTTTGG
 TGGCTTTCTG GCTTACAAGT TCCAGTGCCT ACTCCATTTC CCTCAGAGGT TTGCTGTGAT CACTGAGGGG AAGCAGAATG
 GAGCATCGTG TGGTCTTAC TGGAGGACTC CTTGCAGCAC CTGAAACAAC CCAATGTTGT TAGAGGCAAA T

SEQ ID NO:1251: (Length of Sequence = 320 Nucleotides)

GCCTCANAAG GTCCTTCCCA GGCTTCTCGC AAAGGAAGGC ACTGCCTCTN CACACCTTGT GAAACCTTTC CAGGACCTCC
 CAGTCAGAGG CGTCTGGTT CTCACGTCTT GCAGAGCGCC CTACAGCCTG TCTGTGGGTG AGCGTGTCTG TNAACTCTTG
 TCCATCTCTT CTGTGATCTG TGTGCTCCTC GAAATAACTG ATTTTNTCTC ATACACCTTG GAATCCTGAG TCCACAGAAC
 AGAGGCTCAT ACAAGGAAG CTTTCAAAGA GTGCTCATCG ATTTCTAGGN TTCTTGAAGA CAGGCACCAN GTTTTGTCT

SEQ ID NO:1252: (Length of Sequence = 367 Nucleotides)

CAAAAAACA AAACAGTTA TGCAAAAACA AGAGTACAAA ATGCCCTTT CTGAAGCTCA GTTTGAGAAA CTGATTTGCGN
 ATCTAGCTTA TTGATTATAC TCAGTTTCAA TTCCTCCTGT GCAATAATA CATAAAGTCA TTAATGATGA TTTGATGANC
 TGAAATCATC TTCGCTTAGG ATCGTTTGAC ATCATAACCC AAATATAAAA AAGTTATTCA AGATTACAG AGATAAAAA
 GTGCCTCGGA AACATAATTC ACCCATGTAT ATATAATANT TTINGAACAT ACTTTTAAA CATAAATCA CAGTCAAGGC
 AGTGATAGCA TTGCATACTC AGTGCAATTAT TTCATGTAGT GCCTTCC

SEQ ID NO:1253: (Length of Sequence = 393 Nucleotides)

311

TTGCTTTCAA GACAACACTC AGTTGCTAAA CCCATTTCCT TTTCCTTAGG ATATTTTCAT TGTCTCCGAA TTTTAGAGCT
 GAAAAGTGCC TTAGAGATCA TCTAGTTCAA CCTCTCCGTT CAAATGGAGA ACCTGAGCCA CTAAGNITCA CAGGNGAGTA
 AGATAATTGA GCAAACAACCT CCAAGTAATG ACAGAAAATT ATAGGAGAAT CAGTACAAAC TGTGAGAATT TACTATGTTG
 TTAGCATCCT AAGTATGAGT TTAGAAAAGG TAGAAGTTAT AAGAAAAGTT AAATTGTTTT AATATGAATG GGATTCCACT
 GTTACCTTCA NGNTAAAATG GAGACATACT TTTTNCCTTA GGTATTATAG TTAAACGAAT ATTGTATCCN GTG

SEQ ID NO:1254: (Length of Sequence = 377 Nucleotides)

CAAAAGCAAG GAGATGAGTT GAAAGACAGT TTTCCTTTAA GTTCATCAGTA TGGGATGTCA GCAGAACAAA AATTAAAAAG
 ATTAATTINC CTTTTGATCT AAAACTTCCT TAGTTTGAGC AGTAGGTGCT ACAAATTTAT TTACATATCT TAGTATCATA
 GTTAAATGTA ATGTGTTTAG GAGAGGAAAA CAAAGATAC ATTTCCTTTA AATTCATTAA GAAATTTTCA AATTCACTTT
 GTAGCCCATG CTGNATAGAA TTGGGCTGTG TTGGTACATT TGAAACACTG TTTATGTTGC TTGAAACACT TATTNNITTA
 ATCGCCGATG TGATGATGCC TATGGCCGAG ATCANATATA GCTAGATTGG CTAGGCT

SEQ ID NO:1255: (Length of Sequence = 307 Nucleotides)

ACAAATGTTA GCTTTCTCTG GCCTAGAAAA AGAATAGGNT CATCAAGTCA TAAAACGAAG TATGTNATTT CAGCACCTCC
 ACAAATGGC TTCATCAAAG AAGAGAATCC CATCACATGT TACCTCTCCT CTCTAGGTTT TTCAGCTGGG GCTTTGCCTG
 CCCCTCTACC TATGGCAGAA CCCACTGACT CGTGGNCTTT CCAGCACTTC CACTTGCCCTC CATTAGACAC TTAACCCCGC
 TGNCCGCTGC CTCATGCCAG GGAGGGCCAA TCTCCAGNCA ATGCTNCTGC TGGCTGTATG ATGACTG

SEQ ID NO:1256: (Length of Sequence = 326 Nucleotides)

TTGAGAAAAC TGCAGAAGCT GGAAGGTCAA TCTCTGACCT TCTTTCCTGA GACACCTTCA TGTGACAGGT GTCCCACTTT
 ATGCTGGAG GGAAGGAATG ATAACACAAA GATACCAAGA AGAATGTGAA GAGACCTTTC TCAGTTCCCC CCAGTTCAAG
 ACCATTATAT CGTACCCACT TTGTCTAAT CANGCTCTA TATGACTATC CATTCTTTAT CAAACTAAA CATAGAAATA
 TACGATTATC TCAATTTCTG TCTTTGNTTC TGAAGGCTCC TGTGTACAT AAAACTTACA TTAAATAAAT TTGTATGTCT
 CTCCTG

SEQ ID NO:1257: (Length of Sequence = 224 Nucleotides)

TTTTTINAGA GGGATTCTCA CACAGTCACC CAGGCTGGAG TNCAGTGGCG TNATCTTGGT TCACTGCAAC CCCTGCCINC
 NGGTTTCAAG CGATTCTCCT GCCTCAACCT CTCGAGTAGC TGGGACTACA GGCACCTGCC ACCATGCCCA GCTGATTTTC
 CTGTTTINAG TAGAGACGTT GGCCAGGCTG GTCTCTTAAC TCCTGACCTC AGGTGATCTG CCGG

SEQ ID NO:1258: (Length of Sequence = 329 Nucleotides)

CAGGGGTTTC TTCCCTACC CTTGTGAAA ACCAATCAAT TACTAGATGA GTGGATGGAT GCAGAAAAAT CTGGGCTGAG
 CCAAAGTCCC TTTTGGAAAT ACAAGCCATA ACATTGGAAG GACATCAGCG ACCTTGGCTT GTTTAGGTGA TTTTNCCTCC
 AGCTGCAGGT AGTCTTGACA AGGAGCGTTT AANCAGAAGG CTCAAGATGC ATTCTTGTG TAGGTGGGNG AGAGCACTTC
 TAATGTTAAG TGGGGTACAG NTCAGCTGCC CCCCCACGTA GCCTGGACAT CGTCTTNTCC CCATAATCCT TNNCATCCCT
 ACAAGGTCC

SEQ ID NO:1259: (Length of Sequence = 374 Nucleotides)

GGTCATATGT TACATGCATG TTGTINCAAT ATGTGTATGT CAGGNCCATC TTCACAAAT TNCATAGCCC CTTCTGTGAT
 CTGTTAAATA GGTATATTTA GCCAACCTC TCAGCATAAA GTCCTACCC CAGCTGCTCC CCCTTCCAAG TGCTGCATC

312

TGCTCTGGC TGGGAGCTCG CTTCCAGCC TGTAGGATGG CCACCTTGAA GGCTGTAACC CTTTGAAGA AATAAAGTCT
CCTTTTCTAA ATTTATAGAT TGTATGATTG TTTAAGCTA ACAATAGCAA TGGCATTATC ACCTCAGTTT CTGTGTGTGT
GCTTAGCATA GTACCTGACA CATGGCAGTT GAGTTGGTAG CTATTTTTTA ATAT

SEQ ID NO:1260: (Length of Sequence = 353 Nucleotides)

CTCAGTCAAA AATAGCAGCT GCTGAATTAG CATGGGCATA CCAGGCAAAT AAGCCTGCAT TGTATAGCG TTCCCTTGAT
TGCNCTATGA AACTGAGTAA AGTTTCATTT CTTGATTCAA GAATTGCAGC TAAAATATCC TCTGGACAAA GAAGAAGGGA
AATTTTTTGA TAACAGATGT GTTGACTCCT TACAGTATAA AGCCAATTTT TGTATATCT CACCAACAAT CCTGGTTTCT
ACAGTACATC AATTTTAAAGT AATGTGCCAA ATCATGGCAG CAAAAATATG TTCCCTCTAG CTGTTAGGGA CTTTGACTTG
NAAAACAGGN GTTTCAAATC ATCTTCTTCA TTT

SEQ ID NO:1261: (Length of Sequence = 294 Nucleotides)

TTAAACAGA CAGCTAAGAT TATAGGAATA TTTAAATAA ACAGCATTTA TTTTAGACAC ATTTCAAATA GAAGCCACAA
TAATCAAATA GATATTATCT GAAAACGTTT CAAAAATATT AACCCCTTTAA ATGTTCTTCT CTGAAAAATT AGTTTATCTT
TAACAAATTA TTCTGAATTA TTGTGTCAAC ATATAAGGTT ATGCATATAT ATNCACTTGC TGGTCTCTAT GTTAAAGCAA
ACTAGGTAAA AACTAGAGGA AATATCTGGA NCATAAATG GTTAACAATT TACG

SEQ ID NO:1262: (Length of Sequence = 292 Nucleotides)

ATGATGAAGG GTTGGAGTGA TGCACCTAGA AGTGAAGGAA TGCCAATGGT TGCCAGCAA GCACCAGAAA CTAGGGAGAA
ACAAGGAAGG ATTCTNCCAC AGTTTCAGAG GGAGAATGGC CTTGCCAACA CTGTGATTTT GGACTTCTGG CCTCCAAAC
TATGAGACAA TAAATNCCG TTGTCTTAGA CCACCCAGTT TGTGGAATTT TTTTACAGCA GAACTAGGNA ACAAATACAG
TTTTTTTTTG CAGTAAAGAA GTTTTAAATC TGGGTATGT CCAATGTATC AA

SEQ ID NO:1263: (Length of Sequence = 303 Nucleotides)

GGTTGAGGTT GTGGGTAGGA TGAGAAGACG ACAGGATGAA TCTTACCCCC CAGCTTTAGT GGAATTCTGT GAAACACCTG
GGAATGTGTT AGCATCAGGA GAATTCCTCT AAGGTATGAA GAATGACAAC CTGGGACCTT TCTGTAGGT GGCTCTGAAC
CTAACTATTC CCCAAGATT CCCAAGTGGT AGGAAGGAGG GGGTGCAGAG GGATATTAAT CATGGTCATT AAGTCTCAA
ACATTTCTAC TTCAAGTGAA TACATTAACC ATGCTGAGGC AGTTGAACAA CTGAATGCGT AGT

SEQ ID NO:1264: (Length of Sequence = 313 Nucleotides)

GGGACTACAT CAAGCACCTG CGGACATCT GCGAGGGCTA CGTCCGGCAG TGCCGCAAGC GCGCAGACAT GTTCAGCGAG
GAGCAGCTGC GTACCATCTT CGGGAACATC GAGGACATCT ACCGCTGCCA GAAGGCCTTC GTGAAGGCC TGGAGCAGAG
GTTCAACCGC GAGCGCCAC ACCTGAGCGA GCTGGGTGCC TGCTTNTGAG AGCATCAAGC CGACTTNCAG ATCTACTCGG
AGTACTGCAA TAACCACCCC AACGCCTGCN TNGAGCTCTC CCGGCTTACC AAGCTCAGCA AGTACGTGTA CTT

SEQ ID NO:1265: (Length of Sequence = 290 Nucleotides)

TTTCTATGTG TAAGAGAAAA TAGAGATGGG TATACATACT GTTGTTTTTT TTGAGCCGAG AAACGTGTGT ACCGGGGCCT
CAGGTGGTGG GCATTTGGGG CTCTCTTGC AGATGCCCAT TGGCATCACC GGTGCAGCCA TTGGTGGCAG CCGGTACCG
TCCTTTNTTG TTCAACATAG GTTAGGTGGC AGCCACGGGT CCAACTCGCT TGAGGCTGGG CCCTGGGCGC TCCATTTTNT
NTCCAGGAG CATNTGGTTC TTGCGGGGA CCCACGCAGC CCTGAGGATT

SEQ ID NO:1266: (Length of Sequence = 322 Nucleotides)

313

CGGACAGATG TCACTCTCGC CCGAGAAGGG GGACACTGTG ATGGTGTCTT TAAGCTCATA GAGTGGCAGG TTGTCTGAAA
 TGCCACCATC CACGTAGCGC ACCCCCTGGA GGGAGGGAGG GATGAGCCCA CAGTACACGG GGATGAAACC NCTGCAGACA
 TTGGCCCTGGA TGAGCTCGTC CTGGAGTTN AAGTGGGATA TAATGACATT NTCGCCGTCT GACACGCGGG TCAGGGAGAT
 GCCCAGGCGC CCACTGGCAT GCTCATGGCT ATCAGCAGGC AGGACCTTNA GCAGGAAACT CGGGATGATC TTTTACCAGG
 TT

SEQ ID NO:1267: (Length of Sequence = 310 Nucleotides)

GTAACCCATC CCATAGGGTT GINCTATGTA TTCTTGCCAG GTGGGGTTGG AGCACCTTGT GAGCTCAGCA GCCCAACATC
 GATAGTAAGG GAGTCAGGGT TTCTTCATCT TCCCTAGAGT TAGAACTCAC TTCTACAGCC ACTGTGTCAG GGACCACTTT
 GAGCGCCCTT GGCACCTGCT GGCTGGAAAT CAATTTAGCT GTAATGGATC TGGCCCAGCT TTTCTCTCTT TGGGTCATCT
 GCACTCATAG TGGTTGAAGC AAGATCTACC AGATGGGGAC ATTGAGATGG TCCCTTTCTC CTTCTCATT

SEQ ID NO:1268: (Length of Sequence = 338 Nucleotides)

GGGCTGCTCG TGAGGATGGG ACAGCATTGA CTTACTGGGG AGACTCCCTT GATGACAGCC TTACACGGTT ATTCATAAGG
 AGGCAGGAAG AGGCGCTAAC AGTAAGCATG TTCTGGGTTG TCTCGGGGT GCACATGTGC AGCAGCTGTA CCTGCTTGCT
 TGTATGTTAC ATGTCTCATT AACATCTGAA ATCTCCACCC GGGAGTGTGT TTTTINACTAT TATAATGAGC AAAGGTTTCAG
 TCTGAGGACA GGTAAATCA AAAATGTGCA CCCTCTTACG GGGGAAATTC CTTACTGGAG CTAGTTTGGC TTGAAGNGAA
 CTGGACTACA GTGTGAAT

SEQ ID NO:1269: (Length of Sequence = 363 Nucleotides)

CTGCTAGAGA GTATTTTCAGG GTCTGCAGCA TGTGTGTAAG GCCATTAAGC ATATGTTAAG GCCATTAAGA GCAGTAATTA
 TAAAAGGGCC CTGCTAAAAT AAATATCAAG TTCCCTTAAG AAACCTTCAA ATTATGAAAG TTTTCAGTCA TTATTTTGCT
 ACAATGANC TTAGCAGCTA AGNAAAATGT CTGCTGCTT ATAACTTAA TATGTTATAA TTATATATTN CTNTTATGTA
 TTTCTAAAGC TACATTTTCA CCTTAACCTT ACTACAAAGT AGTTTCGGGA AACAAAGTAA AAGCAGGGGN AATCCAACCT
 CAAATATAAT CAAATATAT

339

GATAAGTGAG ACTAATGGAA TCGTTTCCCT CTAACCTCAT AAAAACTTTA AGGATTATCT TTCTTGAGTT CTCGTATTT
 CTGTTTITAGA AGAAAAGAAC AAAATTTCAG AAACAAGATT ATAGTGCTTT TNCATAAGTA TAAATACGTG GGCCCTATAC
 AAACITGGCAA ATTCATTAGT CTTAAAGCAG ACATCCAAGC TATTGTGGGT GTTTGGATGA CACCATTTTC ACAGTAGGAA
 ATCAATTCAT TCTGAGCGTG GGAATCGGCA TTGGTTAAGC CATGAGGTTT TATGTGGTAT AAACACCTGG GAAGTGAGAG
 AAAAGNCAGC ACAGAAGCTC TGTGGGAGCT CTTCTGAGCA TTG

SEQ ID NO:1271: (Length of Sequence = 335 Nucleotides)

ATGCCCTCTGG CTGTTTGAC TGCAAAAGGT GATGTGCAGG GGTAGAGGTA GGGTACTAAT TTACAGTCAC CAAAATTAGT
 ACTGATATTA ATCAGTTTAG TTGGATTAG ATGAACAATG TTTAATGCTT TAAGNTCAT TTTTGGCCCC AACAGGACTG
 TGCTATATTA AATGACACCG TGCCCAAAAG CTCAAAAATT ACATAGAAAG TAAAGTACTT CTGAATACT AAAACAGTTA
 AGCATAAAG GTGTGAATT GGTCCCAAAG TGATATTAC TTAAACATTT AATCCTACGN NCTATCTTAG CTGTACCCCTC
 TAAAAATGCT TAGGA

SEQ ID NO:1272: (Length of Sequence = 323 Nucleotides)

314

GTTTTAGATA TTTTAAGATA TTAACTGTC CCTGTGGCT TTTAAGGAAA AAATAAGTAT AAATNCTTGA ATATTAAGAN
 TTTTAAATCA GCTAAATTCA GGGCCAAGAA CTATTTAAGA TGATTCANTG AGAAAGAAAA GGACCTAACC TGGAAAAAGA
 GTTTCAAATA TGCCAGTACG TAGGGTATTT NTGGAAATAC ACAGTCTAAA ATTAAAAATT NNAACTNATC AATGGAATTT
 AAATCTATAG CACTTTAAGG CTGTGGAGCC CAACANTAGG GGNTACTTTG GGGGCACATG ATCTTTTCAA ACATAAATTA
 GGG

SEQ ID NO:1273: (Length of Sequence = 368 Nucleotides)

GCAGCCTGGG CAACAAAGCG AAACCCTGAC TCAAAAAAAA AAAAAA AAAAGTCTCTT AATCACAACA GCAAAGCTCC
 AAAAGTTCAA GCATCACAGG TAGCTAGTGG CTACTATATA GGNCAGCACA GACACAGAAC GTTTCACA TCACACACAG
 TTCTANTGGG TAGCAATGAC CTATACTGCT GACCATGCTG NCCAACATGT NTGCAGCAGT CCTCATCCC TCTGTNGTCC
 CCTGTTACAA GCTTAGANCC CCTCCNNAC GCTCCTCCCC CATAAACAGG GCAAGTNGGG CAGAAGGTGG AATCCTTTTC
 AGGGGGCAAA T 331

GCAATGGGAT CTGGAGCCAA AGAAAAATAT ATCTGAGTTC TAGCTCCTCA CTAAGTAACT GTGTGATAAT GGGTATGTCA
 CTCACCTCTT TCCAGCTTTG GGTCTTTTAT GTGTAAAGG GAAAAACATA TGCCTACATC ATAAGGCAGA TGTGAACATC
 AAATGTTATC AGTAACTGTC AATCTGTTTT ATTAATTGTA GAATGTCCAA AATATTAGTT TGTATGGACT TCAATGAGTA
 TGTTFGTGG AGTGGAGTGG GGGAAAGGGA TCATTGCTTA CCTCTGCAC ATATCATGTT TCAGCCTAGT ACAAGGCAGC
 CATGAGCACA AAGGGCTAAG CTACTTAAAT CAGNCCCCAA ACPACTTC

SEQ ID NO:1275: (Length of Sequence = 319 Nucleotides)

AGATTACTCT TTGCAGAAAT TTGGTTAATT GTGAAGCTGA AATATCCTGA CTCTACCTCA AAGTTAATGT TTTAGGTAAC
 TGAACAGGTA TTCTNCCCAT TACTAGTATT GAAGTCAGAA TACAGAAACA AATAGTTACT GCCAGAAGCA GAATGGAAGA
 GCCAAAAAGT ACACAAAATG GACGCCATAA ATNCTGAAAT AAAAGTGTAT GATGTGTTCT GAGTCACTGT AGAAGTCATG
 CATTTATTAT CAAGATAGAA AAGAGCAGAG AATGACGTGG GACATTGGTC CTCGGAGGGC TTCGTANGTG GTTCGGTCC

SEQ ID NO:1276: (Length of Sequence = 324 Nucleotides)

CTGCAATTGGG CAGGACAAAA CCTGCCAGAT TCAGAAGGTC ACGANTCATC TGGCCTTTAA TGCTGATATC CAGTGGAGAG
 CTGGAGTGGA GGCTTGGGGA AATATTGACT TCAGGACCC AGGGCTTGAG GTTTTCTNCT AGCATGATGT CAAAACCAAA
 GAGTTCATGG CAGCTATAGG GCGTGCAC ATACATCTTG AGCAGGCTGG TCACATAGGG CTCTGACGAG ATGATAGTTT
 TGACAACAAC ATCCTTTATC TTCTCCAGA TGGGTGCTGCT ATTGATTNCC CTTCTGGGCT CAGGTAGTTC CACAAAAGCC
 TTCA

SEQ ID NO:1277: (Length of Sequence = 388 Nucleotides)

AGCAAGGCGG TGGGGTAAGT NTGGACCTTT GTGTACCAGA GAGAACATCA TGGTGGCTTT CAAAGGGGTC TGGACTCAAG
 CTTTCTGGAA AGCAGTCACA GCGGAATTTG TGGCCATGCT TATTTTTNTN CTCCTCAGCC TGGGATCCAC CATCAACTGG
 GGTGGAACAG AAAAGCCTTT ACCGGTCGAC ATGGTTCINA TCTCCCTTTG CTTTGGACTC AGCATTGCAA CCATGGTGCA
 GTGCTTTGGC CATATCAGCG GTGGCCACAT CAACCTGCA GTGACTTTGG CCATGGTGTG CACCAGGAAG ATCAGCATCG
 CCAAGTCTGT CTTCTACATC GCAGCCCACT GCCTGGGGGC CATCATTTNG AGCAGGAATC CTCTATCT

SEQ ID NO:1278: (Length of Sequence = 354 Nucleotides)

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GGACTTGTAC CCTGGGTGGT GAGAAGACCC TGATTGGTTT TATTAGTGCA TTTCTGTAAG TNACTGGGAT AATCATGTTT
 AGTTCAGCAT TTTATGTGAG TTTCTGAAAG CNCTTTAATC AACTCCATAG ACAAGATTAT AGTGTGTCAC AGCAATAGGC
 ATGGGCCATG TCTGCACTGG AGGTAAGTTG CAAGGTACAC CCACGGGTGA TTTATCACTC TTACAAAGAT GATACTAAT
 GAAGACCGCA TCTAGAATGC TCTTACTGGA GATGGTTTAC AGAGCATTIT TAATCATCAT ACTTAGAITT ATATTAATAT
 TTCTTTTCAA ACTAAATTAT TCCAACTGT GCCC

SEQ ID NO:1279: (Length of Sequence = 347 Nucleotides)

CCACTTCAGT GCTTCTGTGT CCCGAAAAGA TCTTTTGACG CATAGGGCCT AACTGTAATA CACTTAAAGG ATAAGTCTCC
 ACCCAAGGT GAACATGGGT CATGTGTAC ACGCACATTA GTTCATTATC CATGTGTGAG GACCTCCTTT GTGAACAGTC
 ACAGCTCCTC CTATAACCTG TTAAATATGT ATGTTTGATC AACCCATTCA ACTTAAATNC TTGTCTTACC TCTCCTTCCC
 TCAAAGTGCC TGGCTATACT TCCCAGCCTG CGGGATGGCC ACCTTGCAAG ATGGAACCCT TTGTAAGAAA TAAAGTCTCC
 TTCCAAATG TACACATTGT ATGACTT

SEQ ID NO:1280: (Length of Sequence = 344 Nucleotides)

ATCCTTAGCA TGCTGINTT ACTGAGACCA TAAACTTTTT TTTTTTCCTT CTGCCCTCAC CCAGTGTGTG TTAAGTCTTG
 CTGTTAAGC TCCCACACTT AAATGGCTGC TTGCAGAATT GCAAGGGAC TAGGGAGAGA ACAAAAACAG ATATGCAGGT
 GGTTGTTTGT AACCAGACAG GATTTCTAAG GAGGGTTCAG GCAGTCAAGT GGTITTTTGT ATGTTTTTTA TGTTCATAGT
 TTTGAGTTTT ACAATGTGTG AAGCTTACTT TTGCTAGCAT TAGGTATAGT TTATTTTGAA AGAATGAGGC TCCTGAAAAAT
 AAACATGCCC AGTAACTAT ATCT

SEQ ID NO:1281: (Length of Sequence = 331 Nucleotides)

TGAGGAACAT AAAATGGCTT GGTAAAAGTA ATAAATCAG TACAATCACT AACTTTCTCT TGTACATATT ATTTGTCAGT
 ATAGATGAAT ATTACTAATC AGTTTGATTA TNCCTAGAGG GTGCTGCTCT TTAATGAAAA TGAAATATAT AGCTAATGTT
 TTCCCTCAA ACTCTGCTTT CIGTAACCAA TCAGTGTITT AATGTTTGTG TGTNCTTCAT AAAATTTAAA TACAATTCGN
 TATCTGTTT CCAATGTTAG TATGTATGTA AACATGNTAG TACAGCCATT TTTTTCATAT GTGGAGTAAA AATAAAATTA
 GTATTTTTTA A

SEQ ID NO:1282: (Length of Sequence = 310 Nucleotides)

CCATGTCAA TGTAGTTTAC AAAGGGAAAG GACAAGTACC TTNTATAGA ATATACAGAC ACAGCATCAC ACCACAGGGC
 CCACGGGAGG GTCGGGGAGA CGACACTTTT TCCCTGGGAA AGGCAGCTCT AATCCCAGGA ATGGTTCTCN GCAGAGGCTG
 GGTGGCCAGG AGCACTGTCC TCTAGCCCCC TAACTCAGCC TCTGCTTCAN CTGGTTCCC ATTTCTGCCC TCTACCCCCC
 AACTCCTTAT AAAGAGCCCC ATGAGCTAAG ACTAAGGAGA GGTTCATNTC CCTTGGGGCG TGTGCCCCAT

SEQ ID NO:1283: (Length of Sequence = 323 Nucleotides)

ATGAGGATTA ATTATATCTG TNCACCCAC ACAGCTCCCC CATACCCATA ATCTTTATTT ATTINCTTCG TTTCTTCTT
 ATACCTTGTT TCAGGCATTA AACCATAACC TGTATTTTAT NCTATCCTTT TCAAAACAGG TGTGGACCAT GCACAGATGA
 CCTATGACGG GCAGCACTGG CACGCCACGG AAGCCTGCTT TNNITGTGCC CAGTGTAAG CCTCTTNTT GGGATGTCCC
 TTCTTCCCA AACAGGGTCA GATTTACTGC TCAAAAACGT GCAGTCTTTG GGTGAAGACG TCCATGGCCT CTGAATTTCT
 CCG

SEQ ID NO:1284: (Length of Sequence = 283 Nucleotides)

316

TTTTTTCACA AGGTGAAAGA CCTTTATGGA CATGACAGAG AGGACCTGAG TTAAGAGGGA AAATACATCT NCATAGCTAG
 GTTCACATTC AGTTATGTTA GTCCCAAACC TACAAATTCAC ACATGATCCC TATTAAAATC CTACCAATAT AGTTCAAAG
 CTGACAAGT TGATTGTNAC ATTTATATGA GAGANTAAAT AAAAAAAAAA AAAATAGGGC CAGGTGCAGT GGCTCACGCC
 TGTATCCCA GCACTTTAGG AGGCCAAGGC GGACAGATCA CTT

SEQ ID NO:1285: (Length of Sequence = 341 Nucleotides)

CATTCTNATG ATGTAGAGGC CAAAATGGTA TTTNATAAAG AGGAAATTAC TTCTGANCCA CCCAGCTGG AAACACTGGT
 AGTATCGGCA GCAGATGTGA TTACATCCGT TTTGGTATTA CACATCGTAT TTACAGCAGA CATGACTGAN CTGGGAACAC
 TGCCCTGTGA GACAGCCTGA AAGTTTTTTN CAGATTTTNT GTGAACACTG TCTGAATTCA CATTGGGCAA AATGATTCTN
 CCAGTTTCTC CGCTTCTGC TAGTTTGAGG CAATCTGTTT TATGTGCCCC AGCTGAAGAT CTTTCACTAA CTCGATCTTT
 AGAAGCTAAC TGCATTGCTG G

SEQ ID NO:1286: (Length of Sequence = 354 Nucleotides)

GCCCTATTTG TACAAAGTGT GCATGTNAGC GTGCGTGTGT GINTTGCAAT TTTCCCCCTT TAGGTGGTTC AAATTTGGAA
 TTTGTGAAGG CAGAGCTGAT AATTAGAGAC AATAAAATC TGCAGAGTAG ATGGTTCCAC AAACAAGACT ATGAAAGAGG
 GGATAAAAGA AGAGGTCAAG AAAGACTCAA GAACAGTATA TAGAAATAAT TCAATTACAT TATGTGTATT TTAAGAAAAA
 CATGTTCAAA CTGCATGAGA CAGAAAATAG CACTCNGTGA TCCTCCTAGA CTTCTNAAAG TTTTGAGTTT GTCTGCAATC
 TTTCTCCATT AATCGNCTTT TGCCATCTTC AGAA

SEQ ID NO:1287: (Length of Sequence = 354 Nucleotides)

CTCTCTCACC CGGTGGCCTA TAGCCCCCAA CGTGGTCAGC AGCTGCCTCA GCCATCCCAG CAGCCTGGTT TACAGCCCAT
 GATGCCTAAC CAGCAGCAGG CGGCTTACCA AGGCATGATT GGGGTCCAGC AGCCACAGAA CCAGGGCCTG CTCAGCAGCC
 AGAGGAGTAC CATGGGGGGC CAGATGCAAG GGTGGTGGT TCAGTACACT CCACTGCCTT CTTACCAAGT TCCAGTGGGT
 AGTGACTCGC AAAATGTGGT CCAGCCGCCT TCCAGCAAC CCACTGGT CCCTGTGAGC CAGTNTGTGC AAGGAGGCCT
 NCCAGCAGCG GGGGTACCA GTGTACTATA GCAT

SEQ ID NO:1288: (Length of Sequence = 231 Nucleotides)

TTTACTTAAT TGGTATAGAT TGAGGNTCAT GCATCANCA GCACTTTTGA AATTNTCCCC AAGTGATTCT NACCTGCAGC
 CTGGGTAAAGA AGTCGAGGG CTCTGGATA GTCATTAAGT GAACTGTGGT AAGCACTGAT GTAGCAGGAT TACCTGCCCT
 ACTAGGTGCC GGAAGTGCAT TTNCTGTCTC ACAAGTAATT TTTTAAATG TATGCTCGCA TCCCTGCCTT G

SEQ ID NO:1289: (Length of Sequence = 329 Nucleotides)

GGACACTGTG AGGGGAAAGG ACAATTTTAA AATTCCTTTT CAAGGAAAAA AAAGTCTTT ATGCTTTGCC ATGAGGCCAC
 ATTCAGCTGC TATTTAANCT TAATATCTTG AACCTAAAGA ATGCTGACTT TNCCTACATT TCCAGAGTTA GGCAGTATTC
 TACACTTAAA GACTACTACT ATTTTNATAA AAGGTAATCT ATTCAAATTT CTTACAGAT TTCCCTTGCT GGGGATCAGT
 TAGTAAAGAA GGAGGAATTC CTCTTACCCA AGAGGAATTG CATTGCTTTA ATTTAGCAAT GTGAGGTAAG GCCTGCCNAG
 TGCCAGGG

SEQ ID NO:1290: (Length of Sequence = 297 Nucleotides)

GGAGGCACAT GTGCAGCTTT GTTTCATGGG TAAATGTCAT GTTCTGCGG CTAATGTGGT TTCTTTTACA GAAAAAGTA
 TCAGAAATAA TCGGTTAACT TTNCTCACAT GGTCTTAACT CTCTTCAGG AAATATCTAA CTTGTAAGTG CAATCCTTCT

317

TGTATAGCTG CCAGACCAGA CCCAGATAGA CCATAATAAA ATAAATACA CAGTCAGTTT TTAATGCAAG CCAGAATGAC
TCINCTGTAT CTTTAGCCCT TCCAGGGGGA TACAGTGAAC TCAGATATCC CTGCTTA

SEQ ID NO:1291: (Length of Sequence = 317 Nucleotides)

CTATAATCCC AGAACTTTGG GAGGCGAGG TGGGCGGTTT ACCTGAGGTC AGGAGTTGAG ACCAGTCTGG CCAACATGAT
GGAACCCCAT CTNTACAAA ATAAAAAGCA AGATATGCAA AATAATGTGC CAGTNTGGTG CCGTATACCT TTAGTCCCAG
TTACTAAGGA AGCAGGGTGT CINAACAGA AGAATCACCT GAGCCCAGG AGGTGAGGC TGGCTAAAA TAGATCTGGG
GGTAGTGGTT AATNGGCGCT TGTAATNAT TCAGCATAAG GAACTGTCCA ATATTTTTT AAGCTGTCAG AAAATCC

SEQ ID NO:1292: (Length of Sequence = 293 Nucleotides)

GAAGATGGAA ATAGACCACC ATACAAAACA AAAAAGACAG AAGAGAATAT TAGCACTCTG TTGCAAAGGA GAATAGGTAT
GCTCAACTGG TAAGTAGAAT GCAATATTC CAATATCTGA AAAAAATCCC AAATCCAAAA TACTTCTGGT TCCATGCATT
TTINCTAAGG GATACTCAAC AGGTATTTTA AAAGATCAAA ATACAGATCA GAGAATATGG ATACTTGAAG ATTATGAGCA
AAGGAGGATT AAGGNAACA TGTGGAGGA CTTTTTAAA ATGTGTTAAA GGG

SEQ ID NO:1293: (Length of Sequence = 310 Nucleotides)

TCCCAGAAAC ATTACGGTTT GATATCAAGT TCCTATTTTA AGAGTCACCC ATTGCCCCAC CATAAGTNC TGGAGAAGGT
AGGGTATTAC AGGACTAACC TTCCAGTGGC TGATTCTGGT GGTTCACCA TTCAGGTTTC TCTGATTTTN ACAAGCTTTT
TCCCATAAAG ACTGCATTIN CTTTAAAAGC TTCTCTGCA AAANAGCCAT AAATTGAAGC ACCAGTGAAG ACAATAAAGT
AACATACAGA CCGTTTCATT GGGAGGGGGC CNGAATENG AGACAAATAA GTCCCTAGTA AATGGCATT

SEQ ID NO:1294: (Length of Sequence = 275 Nucleotides)

GAATGACGAT GTCAGGGGCA TCAGGAAAGG TAAGGGCCGG GAAACCGGGC CCTTGAGAGG CCTGCCCCAG GGGAGGCCCA
GCCACTCTAC AGGNTCCGAC ACTCCAGGCA GAGCAGAGG CAGGAGAGGC CCAAAGAGCT AGGTCAAGCA GCTGGCTCCC
CTGGGGTTAA ATACATGGGT TTTGTTTTTA CTGCTGTGCT TGATATACAT GAAGTAATGA ATACCAAGCA ATTCATTTTT
CCTGCATCTT TACTTTTACA TTTGINTTA GGTGCTTAA AACATTNAA ATACAATAA ATGAGTGTAG CAAAAATTAT
TGAAGCT

327

CAACCTCTGC CTCCCGAGTT CAAGCGATT TCCTGCCTCC CGAGTAGGTG GGATTACAGG CATGATCCAT CACGCCAAC
TAATTTTTTA TTTTAGTAG AGATGGGGTT TCTCGGTGTT GGTGAGGCTG GTCTGAGCT CTGACCTCA GGTGATTCAC
CCACCTCGGC CTCCCAAAGT NTGGGATTA CAGGTGTGAG CCACCGGCC AGGCTACTGG TCTCAATTCT TTTGGATACC
CAGAAGCAGA AATGCTGGGA TCACATGGTA GTCTC

SEQ ID NO:1296: (Length of Sequence = 247 Nucleotides)

GGAAGGAACA ATTGATAAGA ACCGGGGACA TCAGGGAGAG AGAGTATTTG AGCTGGGCTT GATTCCATCG GGTAGTATCT
GGAAAAAAA AAAAAATCC CAGATGAAAG AATGTACAAA GACATGAGCA TGCAGGGCAC ACTTTGGAAA ATGGGNGAAG
TCTGACAGGC CTGGGAGAAT GAAGACAAGT TAGCACCAGN TTNAGAAGGC CTGATTACA NGGCCAAAC TTTTGGATTT
TACACTA

SEQ ID NO:1297: (Length of Sequence = 246 Nucleotides)

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GACTTCTTAC AATGCAGCAG CAAGAGAAAA TNAGGAAGAA GCAAAAGCAG AAACCCCCAG TAAACCCATC AGACTTCGTG
 AGACTTATTC ACTATCACTA GAATAGCATG GGAAAGACCA GCCCCCATAG GTCCACTACC TCTCCCTGGG TCCCTCCCAA
 AACATGTGGG AATTATGGGA GATACAATTC AAGTTAAGAT TTGAATGGGG ACACAGTCAA ACCATATCAT TCTGCCCTTG
 GCCCCT

SEQ ID NO:1298: (Length of Sequence = 263 Nucleotides)

CATTGCACTC CAGCCTGGGC AACAGAGCA AAACCCATA TCAAAAAA AAAAAA GAATTGCTGA CCTTTATGTG
 TTTCTGTTTA AGTTCACAAC AGTCATAATT CTGTAAATA CAAGGCAAAA CTGTAGTTTC TGATACTAGT AATATATCTA
 ANTCAGTAAG TAAAAAGGAT GTGTAAATC TTAATAGGGG AAATAATTAT TGTATGANCA AGCAATTTC AATCAAAAG
 NCACGTTTCA GTATATATTA TAG

SEQ ID NO:1299: (Length of Sequence = 272 Nucleotides)

ATCINATTGT TGTGTAGTTT ATGGCAGTGG TCTCCAGACT TTTTGGCACT AGGGACCAGT TTAATGGGAG ATAATTTTCC
 CATGGACGAG GGGATGGGGA GGAGGCAGGG GTGGTTTCTG GATGAAACTN TTCCACCTCA GAAGATCATC AGGCATTAGT
 TTCTCATAAG GAGGCAAAAC CTAGATCCCT TGCATGCACA GTTCACAATG GCACTCGTCG CATATNCCGT CGACAACCCCT
 TTTTGGAGGT TCCATGCTTC CCATTGGCT TT

SEQ ID NO:1300: (Length of Sequence = 277 Nucleotides)

ACCACTGCAC TCCAGCCTGG GTGACAAGAG TGAACCTCCA TCITAAAAA AATGTGTAAA ATGAAGATTA TCATACTACC
 TACATCATAG AATTGTTTTT AGTGTAATAT GTGTGTGTGT ACATTTATGT AATAGTTAAC ATTTAAAGAG CACCTACTTT
 GTGTAAACAT ACTTTGTATG AGATACTGTT CAAATATATA TNCTAATATA TGCAACATAT TATATATGTN AGAATAGGGT
 CTTATATATC TTAGGAAGTT AGATCTTATA TGTTTGA

SEQ ID NO:1301: (Length of Sequence = 304 Nucleotides)

GGTTCGGGGT TATGTAAATC CAAACTTAT GAACAGGAAA TGTGTACAGT GCATGATAGG TTAATTTTIN CTTTATGTGT
 GTCCAACGCA GGTCTTTTGG AGAGAAAAA AGATCACAGT GCTGACCAGG TAACTCAATA GGTAAAGTCA AGGTAACCAT
 TGAAAGATAA TAGGATTAGG GAGGTGTTTA TTTTATGGCA TCTTCTCTCA TGGAGTTCTT AGCACTTCGG ACAATTTGTC
 TTTTCCCCAC TTTGTACAGC TGTATGTGT CATTACCAG COGGCTGTAT TTAACCTGCC TACT

SEQ ID NO:1302: (Length of Sequence = 335 Nucleotides)

AGTTTATTGC CATACAGAAA ACATTTTATA AAATAATATG GTAGACTTCT ACTTCAACAT ATTCACGTAA AAACATCACA
 GTGCAAGAAA GTGATCACA TTAAGCATGA AGACATCAA AGCCAGCCAG TATTTTAACT ACAGAGCAGA ATATTCTTGC
 TGTCCCTTCC TAGAAAATGT TGGCACATTC ATTAACCTGCT CAGGTACAAA AAATCACITC GTGTCCACTT CCTGTCCITC
 AATATATTIN CATAACTACA CTGTGTTACA TTAATGCTGG TGGACAAATT AGCTCCTATA AAATCTAAAA ACCTTTTCAG
 GTGGGCACAA TGGTT

SEQ ID NO:1303: (Length of Sequence = 316 Nucleotides)

TGGAGCTGTA TATGGTCCGG AGTTATATGC AGCATCCAGC TTTCAAGCAG ATGNTCCCT AGGCAATGAT GCAGCAGTGC
 CCCTATCAGG AAGAGGGGGT ATCAACACTT ACATTCCITTT AATCAITCCT GGCTTCCCTT ACCCTACTGC AGCCACCAG
 GCAGCCGCTT TCAGAGGAGC CCATTTNAGG GGCAGAGGGC GGACAGTATA TGGTGCAGTC CGAGCGGTAC CTCCAACAGC
 CATCCCGCC TATCCAGGTG TGGTTTACCA GGGACGGATT TTACGGTTGN TGACCTCTAT ATAGATTCTG CAAACT

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SEQ ID NO:1304: (Length of Sequence = 211 Nucleotides)

TATTTTITNC TTCITCTCTC CCTACATATA TTCTAAACCT TCTAAAGTTT TTINATTTTT TTAAGGATCA CTTTATCATA
 AAATAAAATA TCCITTTTCAT ATAATAAAAT ACCTAATAAA AAGTCITTTT TTTTCATATT AGCCCAAGGIN CTTTGCTACA
 TTTATATGGT AATAAACGCC TTTATTAAAA TAGANTATTA AATTATAAAG A

SEQ ID NO:1305: (Length of Sequence = 316 Nucleotides)

GAAATGATTG AGGGAAAAAA ATTTATAGTA CGTTTTCAAC TTTTTTTTTT TTCTTTTGAA ATGGAGTATG GTCATAAAAA
 GGACACTAAA TAACCTGATT AAGCTAGAGT ATAGACCAAA TTGCCACTTA CTTTGAATTG TTTTACCAA AGGTATCACT
 TTGAATAAAG ATAACTTTCA TTAGACATCT ATCTTTATGT GTTCCTGCCA TCATTTTCAGT GAGATCAGAG GAAAGTTAAA
 TTAGGAACAA TGAAAAGCT TAAGAAATGA ACAATCATCA TGCITTTTGTG TATGCTTAAA GTGAGTACAT GTAAAA

SEQ ID NO:1306: (Length of Sequence = 310 Nucleotides)

GGGGATTTTT GAAGGCTTCG CTGTGGATGG CCGAGAACCT GCTCGGGGTG TAGGTCTGTG TGTCTGGGGG ACAGTTTCCA
 CATCTGAGCA CACGGACTGG ATTTCTGAAA TGTCAAAGTC TGATGCATCA CTGCCTCGGC GGCTGCTGGC CCTNCTGCCA
 GCTTGCTTC CAGCTCGACT TCCTGGTCGG CTGGGAGTCT TCTTGAATC AGCAAACGT GTTCGGACTC TGGCAGNTGC
 AGTTGTTATC AAGCCACTGT CCTCCCCANA GTGGAAGCCT TTCCCTGATA AAAATCCTGG AAGTCGAAGC

SEQ ID NO:1307: (Length of Sequence = 302 Nucleotides)

TAATAAATAG TATATGTAGT GAAGAAAAAG TTATAACAAG TATACATTAC ATTTAACACA CCTAGCACAT AGGACACCCT
 CAACAAACAG CTACAGCTGC TGTAATCAT GTGTATATAA TATAACATGC AAGCATATCT TCATGTATTG ATTAATTACT
 ACTTCTTGGA AAAGGATCTG AGGAACATAT TTAATATATT TNATATGCCT GCTCATATGT NCATTTAGTG CTTATCAATT
 ATATTTAGTG CTTTCTATT AGCTTCATCC ATTTGATTAA GATAGCAACT TGTATTATTT AA

SEQ ID NO:1308: (Length of Sequence = 285 Nucleotides)

CGCCGGCCAA CGTGGTCTTC CTCTACATGC TCTGCAGGGA TGTATCTCC TCCGAGGTGG GCTCGGNTCA CGAGCTCCAG
 GCGTCTCTGC TGACATGCCT GTACCTNTCC TACTCTTACA TGGGCAACGA GATCTCTTAC CCGCTCAAGC CCTTCCTGGT
 GGAGAGCTGC AAGGAGGCC TTTNGGACCN TTGCCTCTCT GTCATCAACC TCATGAGCTC AAAGATGCTG CAGATAAATG
 CCGACCCACA CTACTTACA CAGGTCTTCT CCGACCTGAA GAAGC

SEQ ID NO:1309: (Length of Sequence = 319 Nucleotides)

TTTCCAATTA TTATTTTGCC AATATCCTCA ACTCTTTTGC CCACTTTNAT CTTCATTCA ACCCTCCCTG CAAAATCCTG
 ATCTAAAAGC AACCCAAGTA TTTGCCCTCT CAACCTCCCA GCTGCTGAGT GGTTTTGGGA ATTACACAAC CACTAAGCTT
 GGTGAGATG CACTATGGCC TCAATAGAGT CCCCCAGTGC TGCCCACTTT CTCTTCCAT ATTTCTCCAC AGCAGCTGGT
 CAAATACAT TTTTCCCCAA ATGTCTTACA CAACCCCTT CTCTCTTATC ATCCTTANCT CACCCCAACC CCAGTTCTT

SEQ ID NO:1310: (Length of Sequence = 356 Nucleotides)

TGAAGTTTTG CTCTTGTCGC CCAGTCTGGA GGGCAATGTG CGATTTTCAGC TCACTGCAAC CTCTGCCTCC CGGGTTCCAG
 CGATTCTCCT GCCTCAGTAT CCCAAGTAGC TGGGATAATA GGCACTTGCA ACCATGCCCA GCTAATTTTT GTAGTTTTAG
 CAGAGACGGG GTTTCACCGT GTTGGTCAGG CTGGTCTTGA ATTCTTGACC TCGTGATCTG CCGGCTCGG CCTCCCAAAA
 TGCTGGGATC ACAGGCATGA GCCACGCAC CTGGCCCTAT ATCTGCTTC CTATCTCGTG GGTGATGGTG TATGGCTTTT
 ATTTATTTCA ACCTGCAGTT GTTTCAGAA CATCTG

320

SEQ ID NO:1311: (Length of Sequence = 331 Nucleotides)

AGCTCAGATT CATGTCTTGA GCCAAACAAG TGAATGTATC TNAGAAGACT CAGTACCACA TGGTACTGGG AGATCTTACT
 CACTTCAGCT GCGTTGCTC ATTAGTGAAT GTATGACAGC AGGATGTGAG GGGATGCCCA GGAGTCAGTG TTAGCATTGT
 CATCTGAGAT CACTGCTATT AATATCATCC ATTAATTTAT TAGTGAGCTT CACTATATGC AGACTGGGAG ATAAGGAGAA
 AATCTGTCAC ATTCTCTCTA GCTAATCAGA TCAGCTACCA ATTAATGAGA TTCTGAATGA AATATCAATA TGTGTTTTTC
 TAATTTGGAC C

SEQ ID NO:1312: (Length of Sequence = 347 Nucleotides)

TTTTTTCCTT TATAAATTAC CCAGCTTCAG ATTTTINAT AGCAATGCAA AAATGGCCTA ATACACTTCA GAACCTGGAA
 GATTAGCAGT GAGAAATAAA ATCAGTTAAG TTGATGACTT CTAGTATTTT ACTACATGGT TGTTTTGCCA AAATGAAGGC
 AATATCAGTG TCTTCACACT TAAAAAGTAG TATATTGANC TTTGAGGTGA AAGAGCTGGG GTTTAAATTT GTNCTTTACC
 AATTATTGAG ATAAGTGTCC TTGAGCAAGT TACTTGCTTT CNCTGATCTT TAGTTTTCTT ATTTGTGAAA TTGAAATGG
 TGGTGTTC GAGGGGGGTT GTATATA

SEQ ID NO:1313: (Length of Sequence = 336 Nucleotides)

GAATTCCTCT ATCAAAGTGT TCATAAAACC TGGAGCTGCA GCTGCCCCC ATTAGGTAGT TTCTTGGTGA ACGTTTTCCA
 AGGAAAAC TT TTTTAAACA ACTTCATAAA GCCAAGCACA AAAGGACATT GCAATGACTG GCTGAAAGAC ATGGGACTTT
 TTGCTTCGA CGACTAAAAC GTTAAATGGG GGCTTACTTT GTGCATTTAT GGAAGAAAAC TTGGAAGGCA TTAAAGGCTA
 CATTTGAGC CTGTCATGAT TTCATTCATT TATGCATGAA TTCATTGTGTT CAACATTTAT TTAGTACCCA CTATATGCCA
 GGCACGTGTC CAAATG

SEQ ID NO:1314: (Length of Sequence = 391 Nucleotides)

CCGTTTAGA CCTCAGTCGG CGCTGTGAGG GCACTGTCCG CCCACCTGCT CGGCTGGCTG AGCTAGGTCA GTGGAGAGAA
 GCTGGGGCCA CTCACACAGC ACAGCAGGCC ACAGTCTACA GAGTACGCCA GGTAGAGCGG TTAGAGTGGC AGCCGCTGGA
 GAAAGGGTTA TAGAAACACA TCCCTGACTC TTTGGTTATG TCCACGTCC TCCTGTCTC CTTCCTCTC CTTACTCTCC
 TTCCCTCTG CCTCCTGTC TCCTTTGGA GTCCCTGTTG TCAGTGCATT TNAGTGCATT GACGTGCTCT AAACACTGAT
 CTNCACACAC CTTCCTTAT CTCCACCTG ATAGGCAGGC CCCAGANCCC CTTTTTCTCT AGCTTTGTTT T

SEQ ID NO:1315: (Length of Sequence = 374 Nucleotides)

GAATTCCTCT GAACACTGGT GTTACAGAG AGAGATACTT TGTGGAATGG AGCTTACATG ATGAATGAAA AAGAGACCGT
 TAAAAAGTAC TAGCCGTTGT TTACAAATAA CTACCAGGTA AACAAAGAAA TCACTTCTT TCCCCTTTCT AAGGATAAGG
 GAGAATAAAA TAATCACCAA GAGGCATGGA GTTTGAAAAG TATATAACAG ATTTCTTTAT TATTATTTAC AATCAAGTTC
 TGTGTGNC AA CATAATGAAA TAAATAAAAG ATGTGCCCTG GCCTGTGAAT TTCAACTCTC CTTGACTTAA GTTCTCTGAA
 GGGCAAATTG GAAAGCGTG ATCAGGCAGG GAAGAGAGGG CAGGTGGAGG CCAG

SEQ ID NO:1316: (Length of Sequence = 353 Nucleotides)

CTTGTTTACA GGTTTTGAAA GGTTTGINAG ATTAGTATTT ACTTTTAAIT TTTTGAGTAA TAGAATGCGT TTAGGTTCTA
 AATTACTATG GAAATGSCAT AGTGAGGATT CTNCACAGAT ATTAGAGACC TTCAACAACA TAGTGAAAAT AGATTGTGCC
 TTTCTGTGTA ATAGCTGAAC TATGAAAATT TGANCTGTCA CTGGAGGGGG CATTTGCNCT GAAGTTTGCC AAAGTAAAAA
 TAACITTTNCT CTTTAGTAAG AAAAAGCTAT ATTTTNCAT ACTGCCTGCC ACAGCAAACA AACAAAGTCT TGTTTGTGTT
 TTAATATTGG CAAAGGAAAA ATTCTCTATA TAA

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SEQ ID NO:1317: (Length of Sequence = 316 Nucleotides)

GAATTCGGAT TATAAGCATC AATATGCATA AAATGCITAG AGATGGACCT GATATATAGC AAACACTCAG TAAATGTTAA
 CTATTATTAT NACAGCACAG CAATTTATTT AAGATTACTG AGTGTTCAAA TGAAAAAAAA GACATATTAA CTTATATAGT
 GCCATTTCTG ACATAAGAAA TACACAAATA GAGGTAGTTT CTGAAACAAA GATCAAAAAA ATCTATTGTA TGGTGTCTTG
 TATCAATGTG GCTAAAATTT TCGAGCTAAG TTTTATNAAA GACAGATCAT ATTTCANGTA GGTGATTTTT GTATTG

SEQ ID NO:1318: (Length of Sequence = 300 Nucleotides)

GTGGGACTAC AGGTGCACGC TATCATACCC AACTAATTTT TGTATTTTTA GTAGACATGT GTTCCCCAT CTGGCAGGG
 CTGGTCTGAA ACTCCTGACC TGAGGTGATC CACCTGCCTT GGCCTCGCAA AGTGCTGGGA TTACAGGTGT GAGCCAACAA
 GCGTGGCCCA TTTATTTACT TTTTAAATTT CATTTTCTT CATCATGTAG AATGGACAAT TTCAGGAAAC TGATAGAAAA
 TACTGTCTAA CATCAAATTT TCAAAAAAGT TTCTCTGTAA CAGATAAGGC AGTCAATTTT

SEQ ID NO:1319: (Length of Sequence = 306 Nucleotides)

CAATAAGCTT TAAAAAGTTA GTGCCACATG ACCAGCATCG ACTGGCCTCA GACATCTGCA AGCACTCACC CAGGCCACAG
 GGTACGGTAG AGGGCTCCTG GGCCCACTGT AGCCCTGCTT GGGTCAGTGT AGCTGGAAGG CTACGGGNC TTAGTGGGGA
 GCCACAGCCT TTCCCACTAG GGGGCTCTC ACTCTGACAT CTCCCTGTGG TGTTCGGACC AAGGGTGGGG AGGGAGACAC
 GCTGGCCCTA AAGGGAGGTG GTAATNAGTG AAGATCTCCA GGGCCAGNCC ACAGGGCTCC GTCCAT

SEQ ID NO:1320: (Length of Sequence = 373 Nucleotides)

GGTCTTGATC TCCTGACCTC GTGATCCACC CGCTGGGCC TCCCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGTGCCCTG
 GCCGAGATAA TTATTTTINA GTGACGATTT AGCAACCTGA AAACCTTGGG TCTTTGGGAT ATGACCTCAG TATCAACACA
 GAATATTTGA ATGCTGGTTA ATATATTTNT TTTAACTGT GATAGAATTG AAATCTTGTA GCCACATTTT GAAAGTTTTAT
 TCTTCATTAA CTAGTCTTTT CTCACCTGAT TTCTTACAAG AGAGAATTTT CCAAAGGTT AGTTGTCTGT ACATTAAGAA
 CTGGGGTTT GNTTGACATG AAATGTTTCT ACACCAGCAG GTCTCAGATG AAT

SEQ ID NO:1321: (Length of Sequence = 366 Nucleotides)

GTITGGCTAA TCATCCTATG ATTTTCTAT AGCTTGAAAA CTTTTTATAT CTTAAATTTT TTNATAATTT TGAAGTATTA
 TGTITGGGC TTGTATATC CAGTGTATTT TCAATTAAAT TCCCCTAACT AAAGTAATTC AAAAGGAATA AAAGTGTAA
 TGGGGCTGGG CGTGGCGGCT CATGCCTGTA ATCCCAGCAC TTTGGGAGGC CCAGGCGGGC AGATCACCTG AGGGCAGGAG
 TTGGAGACCA GCCTGGCCAA CATGGTGAAA CCTGTCTCT ACTAAAAATA CAAAATTAGC CGGGTGTGGT GGCACATGCC
 TATAATCCCA GCTATTTGGG AGGCTGAGTC AGGGAGAATC TCTTGA

SEQ ID NO:1322: (Length of Sequence = 362 Nucleotides)

AGGGAGGGTA AAACAAATCC CCTCCAATG CTTGTAGAA GGGGATTAGA ATCACTGTGG AATTCGGTAT TGGCTAATAA
 AGTATAACG CTAAAGATCA ATGCCGAGT GCACAGTTGT CCTTCAAGCC ATTGTACTTC TGCTTTCCAA GANTAGANGA
 CTACTTTTTA ACCAAGANTT AAAAATAANC TCATAATTTA AACACCTCTT TCATGCCAAA TGGAAATCTT AGTGTGTAAT
 AATCAGGCTC ACCTGAATAC AAGTTGTCC TGAAAATGCT GACAATCACA AAAAGGTTT TAGAAGCTTT TTCAAAAAAC
 AAGTTCAGAT GGTTCCTACT GAGTTACTAT TTGAGGTTAA AG

SEQ ID NO:1323: (Length of Sequence = 244 Nucleotides)

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CGACCTCAGT GTAAATCACA AAACGGGAAG AGCTGATATT GGCAAAATAA TTACATGGCT CATTTCCTTG CATGTCAAAA
TAGGATTTGA TTGGTTGTAA AAGATGACAA ATACCTTTNC GGTTTCAATG TTCTTAAGTG GGAAGTCACT TATTACAGAC
CTNATTGGGA GTAAACAAAG CTGTTAGACC TTTCAATTATC AGTCCNNTA ATCCCTTCAA TAATCCCCCT AAATCAGTGA
GGCG

SEQ ID NO:1324: (Length of Sequence = 279 Nucleotides)

GATCCATGCC ACAGTGACCT CTGTNACCT GCACAGCACA GAGGGGAAAG CCCTGTACCA GGTGGCGTAT GAGAATGAGG
TAGGCAACAG CTCTGACTTC TATGACATCG TGGTCATCG CACCCCCCTG CACCTGGACA ACAGCAGCAG CAACTTAACC
TTTGACGGCT TCCACCCGCC CATTGATGAC GTGCAGGGCT CTTTCCAGCC CACCGTCGTC TCCTTGGTCC ACGGNTACCT
CAANTCGTCC TAATTCGGTT TCCAGACCC TAAGCTTTT

SEQ ID NO:1325: (Length of Sequence = 338 Nucleotides)

TCAGTTATTT GTGTGTGTGT GTGTGTGTGT GTGTGTGNCAT CTGCAAACCC TGCACITCAT TATCCAAAAA TTATTTGATA
TTTTATAATC AGAGAAAATG CTATTTTAA ACCCTACCAC TGCTGACCAA ACAACAATCA CAACAGCATA AACTAAATA
CTGTTCAACA AATCTATTTT AGTGTAGTAA TTAATAAATT CCTAAATTA TAGACATCCC TAATATTCTT TCCNITAGTG
GTTCTCAGA GTGCAATCTG TGGAGCAACT ACCTGAAGA AATTTGGGG AATGAGACCN TGGGAACCCCT AAATGTTTAG
NATGGTGCTC TNGGGGAC

SEQ ID NO:1326: (Length of Sequence = 393 Nucleotides)

AACTTTGGAG GGGACACCAT CACTCAAACC ATAGCTGTAA ATCTATTCTT TGAGTCCAGA TCACAAATTA CCAAATGAAC
ACGTTCTCCA TTTTGTAGTAC TTTTTCACCT GTAACCTCT GTCTACCTAA GATGAATATT TATTCAITGA ATGAATCATT
TAATTTTGGT GCCCCAAAAT TCTCAGTGAA ACAATTTCTG GATACCTCTC CATCACTAAG ATAATCACTA TAGCAGTGTC
ATATTCTTCA ACTTAGNACA AATCTAAAGG CTCCATTTAT CCTACTAGA AGTGTTCTGT TGTCTTTTTC ACTCTCAAAA
TATCCTCCAT GCGCNAACCA AACACTAANG GGNACCACCA TATCTTGCTC AATGGAGGCN AAATCACTTT TTA

SEQ ID NO:1327: (Length of Sequence = 381 Nucleotides)

CTTTGGAGAA TTAATTCAGC AGTTGGTAAA ATCATCTAT AATAATGGGT ACCATTCTGC TCTGTCCAC ATTTTATGA
AGTCTCTTTA AATTTAAAAA GGCAATGTGC TTTGTGGTTC TTGAGCAACT TAAATACGTT GCTCTGAATA GTTATTGIGA
TGAGGTAATT TGTAACAACT TTTAGGATCA ATGCTAATTT NCTTAAATGT TTCTGTAGTT TCCCTTTAT TATAAAGTAT
ATTAGGCTGG ACTCTTGGCT GTAAGTGGCA GAAAACCTCA CTCAGATTAG TTAAGAAACA AAAGGGTGT GGTGACAGTG
GTGGCTTTCA GACTATTGCT GCAGGCCAC CTGCCATCT CTTACACCT CAACATACC T

SEQ ID NO:1328: (Length of Sequence = 289 Nucleotides)

AGAAGAAAAT TCTTAAGCAG AGTACTTAAG TACAAAATTG AGTGACTGAA AGATGCTTAA TCTAGGGAAA TTAAATGAGA
AAAATACATG GTGTGTGINT TGGAGGGGGA GCTGGAATTG GAATGGGCTG GAGTGATGAA AAAAGCCAA CAGATATAGT
CTTCTGTTTT GTAATATAGG CTCAATACTA AATTATGTAG GACTAGATAA TCTAGGTCCT AATGTCTCCT TTTTGCTGGC
AACCTGGGG CCAATTACAC TAGAGGGTTG GTAGAAAAA GAGGAATAT

SEQ ID NO:1329: (Length of Sequence = 364 Nucleotides)

TTGTATATTT GGGATTGTCA ATAATCTAGG CCACGTGGAA GATAACAGGC TATTTTGGAT ATTINCTAAT TGCAATGGTT
ATATTTCTGT GTAAATGCCT ATACAAATGT TTGCTTGGTG ACATATGGAA AACTTAAGGN CTTTATGAA AAGGCGACAA
TGGGGACCTC CAAAGCGCCA AAGTTTCTGC TAGGCATAGT GTTATTTTGA GATTACATTA AAATGGCTAT TTAGACCCAT

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CTAGCTGAGA CTATTCCAAA ACAAACITTT TATCANATTG TNATCATAAT CAACTTTCTA CAGGCTAATG ACTTTATAGN
TTTACTNCTA GGTATATCT ACTAGCACAA TTGGACCCAG TTCC

SEQ ID NO:1330: (Length of Sequence = 221 Nucleotides)

CAATATTTAA ACAAATGCA AACTGAACG TTACCTCAAA ATGAAACAGT GGTGTACTG GCTGTAGAA GTTGATGGCG
GTCTACTGTT TGATATTCAC TGCCATCTC CTCTGCCCCA CTCTACCTCA ACTCGGGACC GCCTCACCTA ATGGTGGGCT
TTGCCGCTTT ATGCCNTGTA GAGNAGACAC TGGGTAACCA CAGCAAATCA ACACGGGNTC C

SEQ ID NO:1331: (Length of Sequence = 279 Nucleotides)

AATAGAGATA ATGGTCAACT CTGAGAAGA ACCAAATGCT GGTGCCATCT TGGAAAGTGT ACATCACCTC CTCCTCTTAC
TTCCTTGAAC AGCAATATTT CTGGATTCT TCTGCAAGCC CCAGGCAGTG CAGGATGCGT TTNTTTTCAG CAGCCAGTTC
CTTCTCAGAG AACTGGCCCC AGAGTTTCTG GACAAATATA TTTTGATCTT TCAGAAATAT GTTCTNATTC ACTCCTACAT
TTGGCACATT NTCCAAGGGC CCAGACTTGA AATTGGAGG

SEQ ID NO:1332: (Length of Sequence = 290 Nucleotides)

GGACGAGGAG ATGTCTTTGG TGGACTTGGG AAAGAGGTTG CTAGAAGCAG CAAGAAAAGG CCAAGATGAT GAAGTGAGAA
CGTTGATGGC AAATGGCGCC CCATTCACCA CAGACTGGCT TGAACATCA CCCCTCCACC TTGCAGCTCA ATATGGTCAT
TATCCACAG CAGAAGTACT CCTTCGAGCA GGTGTAGCA GGGATGCCCG GACTAAAGTA GACAGGACCC CCTTGCACAT
GGCTGCAGCC GATGGACATG CGCACATCGT GGGAACTGCT TTTTGGGAAT

SEQ ID NO:1333: (Length of Sequence = 201 Nucleotides)

CGCCAGCTA ATTTTGTAT TTINAGTAGA GACGGGGTTT CATCATTTNA GTCAGGCTGG TCTCAGACTG CTGACCTCAT
GATCCACAG CCTTGGCCTC CCAAGTACT GGGATTACAG GCATGAACCA CCACGCCAT CTGATTTCCT GTTTCTGCA
GGGTAAAGNC TCAGGGCCGG CCCATTGNT TCAGGANITT T

SEQ ID NO:1334: (Length of Sequence = 267 Nucleotides)

NNATAACTTT TTGTTGAAAT TTAGAAAATG TGGATCTTTT ATACTTGCTT TCCCTTTCT TCTGCCATCT TTATCTTCTG
CTGAAGGAGA CAAACAATAT TTAGGTGAC ATCTATCACT TTATGTAGGA CCTGCAACA CTCATGTTGT CTTGGGACAG
ACAAATGGAG AATGTAAATC TGTTACTCTG TGACAGGATA TAATNTGGA TTGCATAGN TTNCAACAA GTGTCTGTGT
GATGANTAAA TGGTAAAATA TATTTAT

SEQ ID NO:1335: (Length of Sequence = 279 Nucleotides)

GGNTCTGTGTT AGAATGCAGA TTCTAATTAA AAATGTGTAG GACAGGGCCT GAGACTCGGT ATTTCTAACA AGTCCCAAG
TGATACTAAT GCTACTGCTT CACAGATCAC ACTTTAAATA GTAAGGTTCT TGAGAGAGAT TAGTCTCAAG AGAAAAGAGA
CAAAATCTC CAGAGCAGGA AGACCAAGAA AAAAAAATGG AAAGTAGCCA GTCGATTATC AACTAGATGG CCTTAGTGAG
ATTCTGCACA ATATTTATC ATACAAAAT GNTTCCCA

SEQ ID NO:1336: (Length of Sequence = 398 Nucleotides)

TTTTTAAGC ACTCTGTGT GGAATGGTCA AAGATGTTCC TAAACAACA TTGCTGTCAC CAAGCCTCCC ATGANTTAGG
CTGGCTCTC CCATGTGGAT ATCTGCTTCT GCATAGTTGG TGAAGAGGAA GCATCCTCAG TCAAAGCTAC CAGCTGAGGA
ACCTTAGGA AACCCGCTG GTACCTGGCC TGTTNTTGT AAGTATACAT CAGGCCAGGG GGCTGCTTGC CAAGCAACAT
CATGACTGC ATACTGTTTA GTGCATGCAT TACCAGGGCT CAAACATCCA AGTGATGCTA CCTGAATAAG TCGAGGAATT

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TTTGATAATA AACATAAGCC AAATCCAAAA AAATGTTCTG GGTTTTTCCTA TCATTTCCAC TCATTAGTNC CAGGAAAA

SEQ ID NO:1337: (Length of Sequence = 272 Nucleotides)

CTTTCCTCAG TATCACAGGT ACCTGTTTTN CTGGAATTTA TTTAAAATGT CACCTTGTAG TGTTCCCTCT CTAGGGCTGT
TTGTTTCATT TCCCTCTGAA TGAATGCTGC CACACGGTCA TATGTGAGCC AAGTTTACAA GAATGGAGTT GCTGCTGAAG
AGATCTCTCA TTCATCTCCC CCAGTGCCTG TCCTTCACAA TCATAACGTT ACCCTTGCTT GACAAATATA CTGTATGGCA
AGTCATAAAG GTCTTNGAAC AGGACTTGAC CC

SEQ ID NO:1338: (Length of Sequence = 212 Nucleotides)

TAGTCCCTT TATATAATAT AATCAAGTTC CTCCATCTGG GCATTGAGTT AAATTCTACA ACATTGCCAA AATCTGATTT
GACTCTACAG AATATGTATA GTTTATTTAA CCAGATAGTA ATTTAAATTT TTACAACATG CGTATTTTAT GTAATATTAA
TAACAGTAAT TTAAATTAAT ATTCAATACA TACCGTTTGA ATTTTATATA GG

SEQ ID NO:1339: (Length of Sequence = 280 Nucleotides)

TTTTTAGGAA TAACAAATGT TTATTCAGAA ATGGATAAGT AATACATAAT CACTCTTCAT CTCTTAATGC CCCTTCTCT
CCTTCTGCAC AGGAGACACA GATGGGTAAC ATAGAGGCAT GGGAAAGTGA GGAGGACACA GGACTAGCCC ACCACCTTCT
CCTCCCGGTC TCCCAAGATG ACTGCTTATA GAGTGGNGGA GGCAAACAGG TCCCCTCAAT GTACCAGNIG GTCACCTATA
GCACCAGCTC CAGATGGCCA CGTGGCTGCA GCTGTACTCA

SEQ ID NO:1340: (Length of Sequence = 324 Nucleotides)

CTGTTCCACC TCAGATCATC AGGCATTAGA TTCTCATAAG GAGTGTGCAA CCTAGATCCC TCCCATGTGC TGTTTCATAGC
AGGATTTGCA CTCTTATAAG AATCTAATGC CACTGCAGAT CTGGCAGGAG GCGGAGCTGA TGGTGGGAAG GTGGTATTGC
TOGCACTCTC GCCTACTGCT CACCTCTCTC TGTGGGGTCC AGTTCACCAC ACAGACCACT GGTCTNTGAC TCAGGGACCA
CTACCTCT AACANGGNTG AGGAAAACAA CTGGGTTTAT CACACAATTA TTTTAAAGTT CAGGTTTTNC AAATAACTTA
TCC

SEQ ID NO:1341: (Length of Sequence = 376 Nucleotides)

CTAATCAAGG GTACAAGATG TCTAANTCAA AGGCCAGCT CTGCCTACAA GTCAAATATC TAGGCCTAAT CTGGCCAGA
GGAACCAGGG CCTCAGCAA GGAATGANTA CAGCCTATAC TGGCTTATCC TGGCCCTAAG ACATTAAAAC AGTTGTGGGG
GTTCTTGGGA ATCACTGGCT TTTGCCGACT ATGGNTCCCC AGATACAGCG AGATACACTC TAAGGAGACC CAGAGGGCAA
ATACTCATCT AGTAGAATGG AGACCCAGAG GGCAAATACT CATCTAGTAG AATGGGGACC AGAGGCAGAA ACAGCCTTTC
AAAACCTTTA AAGCAGGCCC TTCTTNCAG CTCCAGCCTT TAAGCCTTNC CACAGG

SEQ ID NO:1342: (Length of Sequence = 335 Nucleotides)

ACCCTTCCCC ACTCCCTGGT CCCCGGGAGC AGCTCCTTCT GCCCGANTNA CTCACAGTGC AGGGAAAGGA GGCAGGGAAA
AGACCAGGAT TCTGTGAGTT CTGAGGTTGC CACACACAAA GAAGCTGTGG TTTCTCTGCC TGGCCACTG ATGAGACTAA
AACTGGCTTC CCCTGGAGA CGGCAGATTT CAGGCTGATC CCTGCTTAAAG CCTCTCATC CCCACGCTGG TCCTGTTATT
GATACAAGAC CCAGCTGGTG ACAAAGCCTC CAATCCTGGG GGTCCACGGA GCCTGGGGCT GANATTTCCA GGAACATATC
GCCAGTGGGC GCCCA

SEQ ID NO:1343: (Length of Sequence = 379 Nucleotides)

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GAACCCAGGA GGCGGAGGTT GTAGTGAGCC AAGATCGTGC CATTGCACTC CAGCCTCGGC AACAAAGAGCG AAACCTCCATC
 TTAAGAAAAA AAGAAGGGTG TGATAGTTAA ATTTATGCAT CAACCTGGCT AGGCAATGGT GTCCAGATAG TTGGTCAAAC
 ATTATTCTAG ATGTTTCTGT GGAGGTTATT TTTTAGATGA GATTAGCCTT GTAAACTGGT GAAAATTGGG TGAAGGAGAT
 TACCCTGCAT AGTGTGGTGG GTCTCATTAA ATCAGCTGGA GGCCTCAATA GGGAAAAAGA CTCACCCCTNC CCTGGAGCAA
 GAAGGAAATT CTGCCCAGC AGAAGTTCTT NGGGCAGCAG AATGCAACCA TAAACTCTT

SEQ ID NO:1344: (Length of Sequence = 400 Nucleotides)

GACGGATGGG ATCGGGGCTG TGCTCTGCAG GTCCCTCCCA GAGATGTTGT CATACTGCGA GGGATGCCGC TGTAGGACA
 CCTGTCAGCC AGAGCGGTCC GCGTCTGGIN AGGCTGCGCT CCTGCGCTTC TTCTCGGGGA GAGCAGGTGG CGTATCTNTN
 TGCTGCCCTG GGGCCAGAGG TCCGNTGGC TGGGGATGGC CGCCAAGAGG CAGCTGGAAA GGAGGGCCAA GAAATGGAGA
 CCCAGACTCC CCCAAAGACT CTGGCAACGG GCTAAGGTTT CAGGGCCGTC TGCTGAGGTA TCTGGTCTGC GTTAGAGAGG
 TCTTNTGGA GGAATTCATA GTCGGATCA TAGCAGATCT TGTCCCTTT CTATACCATC TGTCTATTT GGAGATNGCT

SEQ ID NO:1345: (Length of Sequence = 347 Nucleotides)

CCTCTCCCC CAAGGAGCTT GCAATTTTAG GAACTAATCC AGTTTGAGGG CTGAATTTAA GTTAAAATCA ATTACTGCC
 TATGTACTCC TTTTAAACA ACATTAGGTC AAGACCCTTT CAGTGCTAAA TAACTGATT TGTATTATC ATACATTCAA
 GTTTTATAAA TGTGTTTTTC CTCACCTCAC TGAAATATCA GAATCCAGCT CAAAAACAGA ATCAAAGAGG AGACTTTTTAA
 GCATTATCAA TAAAACTAT GGTACGGTAA TATTCAAAT AGTGGAATC ATTATATTAT CTAAAATTCT CAGGAACTG
 CTTTAACCAT GGATTAAATA ATTTACC

SEQ ID NO:1346: (Length of Sequence = 287 Nucleotides)

CAAGTCAATA CCCATAATTA AGTCAAGTTG CCAGCCTTAA TTATATTTNT NTCTCGCTCG TTCACTCTCT CTCTCCTTCC
 CTCCTTCCCT CTCTGCCCCA CCCCCGTGTA CATTATATAC CAATTCATTG GAGATATATA TATGINTGIN TNGNGINTG
 TGTGTGTTNC TGTGTGTGTG TGTGTGTAA AGAAGCAGGA TGTCTTACAC AGATGTTTCA TATATTGAGG NATTACAGG
 TAATTACAGG GAAAGGTATT AACTGTCTT TCAACACCCT AGGCAGT

SEQ ID NO:1347: (Length of Sequence = 295 Nucleotides)

ATTAAACAAC TTTTTTAAAC TTTTGTGCA CAGGACAGAA AACTGCCTGT ACATGCTATG TCCACTTTTG GAACACAGAT
 TTTTAAACAT TATGAATGCA CAAATCTTA CATATCATGC AACTCTATGC CAAGAACCA ACTTCTTCC ATGCAACAGA
 TATGAAGATC TAAATGGAAA CCTAGCTAAG TCTTAAACAC TTTCCAGTA GCAAGTATA TATATGTTGT TGAGGGAAAA
 CCAGTCTTAA CAATTNCTG TACACAATAT TCATGTGCCA AATACAATGN CAGN

SEQ ID NO:1348: (Length of Sequence = 332 Nucleotides)

AGTCCCTGCT ATGTGGATAT TTGGTAGCAA TGACTGATGT GGAACTACA TATGCAGATT TTATGCTTC AGGAAGAACA
 GGTAGAAGAA ATGCAATACA TGATATCTG GTTTCCTCTG CAAGTGGCAA CAGCAATGAA TTAGCCTTGA AATTAGCAGG
 TCTTGATATC AACAAGACAG AAGGTGAAGA AGATGCACAA CGAANTTCTA CAGAACAAAG TGGNGGAAGC CCAGGGAGAA
 GCAGCAAAAT CTGAAAGCTT AACACCCAC TTTGACCTC GGCCACACCT GAAATGTCT CAAATCTCCA GGGNGTATCT
 GGAATGCAT TT

SEQ ID NO:1349: (Length of Sequence = 296 Nucleotides)

CCCCAAAAA CAATGACACA AAATTCATTT GGTTAATTTA TGTAAAGGAA AAAACAGCAA CACCACCACA CAAACAGGAA
 AGTGGGAGTA TGATTAGGAG GGGTGAGATG AAAACTATTT TACAGTAACA TTCCACCAA AAGACTGTCC TAAGAACAGG

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CTGTCAATAC AGTTCACAGG GAAAAAGCAA ATGTGGTATT TTTTGTATT TTTTAAAAGC TCCCTGGGTC CCAGGTGTTT
TGCAGTTTTT AAGGNCCTAT CTGCTAAAGG AATGCCCTTT TAGGGTCACA GCAGGT

SEQ ID NO:1350: (Length of Sequence = 317 Nucleotides)

CTGTTGCCCA GGCTAGAATG CAATGNCGTG ATCTTGGCTC TCACTGCAAC CTCCACCTCC CAGGTTCAAG TGATTCTCCT
GCCTCANTCT CCCTAGTAGC TGGGATTACA GGTGTTTACC ACCACGCCAG GCTAATTTTT GTATTTTTAG TAGAGAAGGG
GTTTACCAT GTTGGCCAAC CTCGAACCTC CAACCTCAGG TGATCCACCT GCCTCAGCCT CCCAAAGTGC TGGGATTACA
GGCATGAGCC ACTGTGCCTG GGCCAATAAA CTATATTTTN TCAAGCCAAA GTAGGACAAG CACAGTTTTT AAAAGGG

SEQ ID NO:1351: (Length of Sequence = 349 Nucleotides)

CGGATGGGTG GGATGAGACT TCAGCTTTAT TGGAAATGTT TTATTTCTTT ATCTAAAAAA ATACTAGAAA GAAATACAAC
AAAATGTTAA CAGTTGTTAA TGTCGGCCTC TGTAATATA GATATGTGT TACTTTAGTC TTTTTTTTAA TCTCACTAA
ATTAAAAAG GAATTTTAGT CTTTTTTTAT CTCACTAAA TTAAAAAGG AATTTTAAAA CCTAGTGT ACATGCAAGT
GAGTCCAATA ATGGCAAAAT AATAATGAGG NTACATAGGA AGGGTGACCT AAATTTTAAAT GGGTGAATAC TGGGTCCCCG
GTACAAGTTT GANAAATTTT GAATTTCCG

SEQ ID NO:1352: (Length of Sequence = 304 Nucleotides)

TTTTTAACT ATTTAAAAGA ATCCTTAAAT GATGGGTATT CTCTAAAGCA TGCGGGGCTT AAAACCTAGA TGATGGATTG
ATAGGTGCAG CAAACCACCG TGGCACATAT ATACCTATGT AACAAACCTG CACATTCAGC ACATGTATCC CAAGACTTAA
AGTAAAAGTA AAAATTAAAA AAGATGGGTA TTCTATATTT ATCTTTTCATG TTACATTTTT CTTGTGGGG TTTCTAAATA
AAACTTGTA CATGAATGTT TTATTCTCAT TCTGTATTTT AAAAGAAGC TGAGTAACAA AAGG

SEQ ID NO:1353: (Length of Sequence = 307 Nucleotides)

CTTAGTCTGA CATTAGGTTA TGAGAAGTAC AAAAGATCCA CAAGTACAAA AAAATCTGTA TAGCTTTGCG GTAGTTGAAA
AAAATGCAAG AGAACAAAAA AATTTTTTGA GTAATATTCA TCTCTGCAGA TCTGAGTGAC AGTCCGCTTG AAACACCGCT
GTAAAAGTGG TAAAAAATGA TTTCATTGTG ATTATGTATA AATTTTIGAT GTCTCINTTA CTGTITTTAG GGAATCTGG
TCTTCCTGNC ATTTATACCT GGATANGTNC CTTCCCTGT AATTTTINCT GAAAGGCTCC AATTTC

SEQ ID NO:1354: (Length of Sequence = 407 Nucleotides)

GTGAAGTTAA GCAGCAAGGG CTGAGAACCG CTGCTCCAGA GAGGCCAGGA GGTCTGGTCA GAGGCTGGGG CCCCAGCCCC
CAGGCACCTC TCTGTGTCAG TTCCCTGGA GAAGTCATGA GTTTGAAGAG TAGGCAGAGG CCAGGTGTCA TCACTGAGTC
ACTCATCAAT GGCCAATGAG AGTNCAAAGG GTAGCTCTGA GCACAGGATG TTAGCAAGA CTCTGGGTT CAGCTCCCAG
TCCCACCANT GCCAAGTGGG GGATCCTTAG CAAGGTACTT ACCTTTTTNN TGCTCTGTT TCTACGGCTG CAAAATGGGC
ACAATAATGT CAGATTCATG AGGATAATG AGGACTAAAA TTAGGNTAAT TNCCTATAAG CTGCTTCTAA ACGTATTTAC
TTATAAA

SEQ ID NO:1355: (Length of Sequence = 355 Nucleotides)

ATTACTATTT GCCTCTATAG GAGGTTTCAT TAGGCATCTN CTTCAATTAT AGTGCAATAT AATCAAACAC TTATCAGTAC
AAGGCAGAGA GACCGGGACT AGCTGCCTAC ACATCCTCAA TGAGCTTTAG GAAATGTGAA GGAAACATGG ACTGAAAATC
TTCTGGTGGC AGGTACTCTC ATGTGTGTC CTATCTGATG CTCTCAACAA CCTCTAGGGG TAGATATTGT GACCCCTCATC

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TTGCAGAAGC CTTGGCTCAA GTATATGCTC AGAATCACAG AGCTGGAAGA TAACTTGGG TCTCTCTAGT GCCAGAGNCC
ATGNCCTCTG ATCTCTCAAG GGCAGAGGTA TTACC

SEQ ID NO:1356: (Length of Sequence = 406 Nucleotides)

TTTTTTTATG TTATTTCACCT CTCCTCTGTTA AATTTATCTG ATAGGATTCT GCAGAGAACA AAATTCAACA GGGCCCTGTG
GAGCAAGGAG CCCCTTTTCC CTATCTCCTT CCTCTAAGAG CTACACCCAG ACCAGCTGGT TATCAGCGGA GGCCCGCTG
CTCCTCATGA GAACGCTGGT GGAAGACGAA GGTGATGGCA GTGGAGGCAG CATCCCAGGC AGCCTGGAGT ACCTCATCCC
GGAGCCCCCA CTTATCAGTG CAGTGGTTCC ACCCTGCCAG GGTCTNAAGT GCAGTCAGAA CCATCAGGGG GTNGCCGGAT
CTGACGGCTG TTNACACAAC GTCGGCAGTG CAAACCTAGG GACAGAAGGC ACANCTNAAG TCACTNCAGA TCCCATCTTC
CTACTG

SEQ ID NO:1357: (Length of Sequence = 231 Nucleotides)

TTTCAAAAG AATTTATGAT TGCTTCACCA GGTCACTAGT GAGCTAAAGT CAAGGAATGA CTACAATCTT GTAGCAITTT
AAAGTGATTA GAATTTGAGA AACTTTTACT ACATTATGTG TTAATATCAT AAGAACACTC CTTTGGGGGC ATTTGAATAA
TAAAAAGNC TACATTCTTT GCACCANGTG NTCATTTTCA CCCACATTCC AGTATTTTNC TCIAACTTGG G

SEQ ID NO:1358: (Length of Sequence = 302 Nucleotides)

CACAACTAAT TTGTAAGCCC CTGAGCGCA GGAAGCTGGT TTTTAAAGAA TGATGTATTC TTCACAGTGC TTTCCCTTTC
TGTTACCCAG GGAGCACATG GCAATATAAG GGCTCCTGGG ATTGANTCTT AAGTACAGAG AAAACCTAAG AATNCTTTTA
GATAGACAGA TAAGAGACCA CNAGAGAAGA GCAGATTCTA AGGTATNTGT GAGAAACGTT ATGTAATGAA AAGATAATTG
ATGACACACA CTCCAGAGN GTGCTGGCGA GATTTGATTC AAAAGCACAC GGCTAGGGCA CT

SEQ ID NO:1359: (Length of Sequence = 356 Nucleotides)

TAATGATGAG CCTCTGGGTG CAGGGAGAGG ATAGGACTTG ATGCTTTCCA GGGGAAATAT TTAATTTTC AGTACTAAGT
TAAGTCTGTA TCATTTTACT TTTTATATAG TTTCTTATTT TATGTTGTAT GAGATGAAA GCTTGCACAT AAAAGATGAT
AAGAAATTAG AATTCATCGT TTCTGTTGTA CCAAGAAGAA CCTTAGTGAT CTCTAAAAGA ATTGTTGTTA AAATATGGAT
TCINCTTTCC TTCTAGTACT CCCCTAGCAT GACANTGAGC GTGTGATCCA TTACCAAGTC TCCTCATGAA AACCACAGTG
AGTCAGCCCT TCACAGAACT ACTACGGGAG GAAATT

SEQ ID NO:1360: (Length of Sequence = 366 Nucleotides)

AAAATTTAAT TCAACTGACC CATCCCACCG GGAAATGCCA CTAGGAAGGT GTAGCCTGCA GTTTTACCTA ATAAGCACAA
CTGGAGGGGA ATAGAAACAC AGAATTGTGA GGAATCGCA AGGCATGCTG CTCAGAGCAT GCCTAGCCCT GCACTGAAAG
CTATGAGATA CTGGTCTGTA GGCATGGCTG TGCTTGCTGG TGGGAGCGGG CATCTCCCT TGGCCTCCCT GGGACACCTC
CTGTGCTCCC TGCACTGCAC TCCACGTGCC TGGGGTGTCT ACACAACTNG CTGCAGCTTC ACTAAAGAAC AGGTGGCACT
NCAGCTTCTC CGGGTCTGC TGAGCACAGG GNCCCGCCAN CCTTGA

SEQ ID NO:1361: (Length of Sequence = 347 Nucleotides)

CCTCCTACTG TCTGTCTGT GGGACAGTTG CCTCCCCCTC ATCTCCAGTG ACTCAGCCTA CACAAGGGAG GACCAACAGG
NTCTAGTTTT TCCAAGTAT GAGTTTCAA GCTTTTTTTT TTGTTTGTGTT TTGTTTGGCA AAATAAAAAC AATACACATT
CCAAGAGAAA TGAATGCATC TTTTGACACG TCTCTATTTT TCATTTACAT ATGTACACAC GNCCCTTGAG TCGCTGCTGT
TGACACGGCC CNGTGTGGAC GGGTCAGGCC CGAGGCCCT CCGGAGCAGA CCTGTAGCTC TCTGGGGGAT CAGGGCTTCC
ATTAGGGAGA AAGTATTAGC AGTTTCT

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SEQ ID NO:1362: (Length of Sequence = 358 Nucleotides)

CCATTCATTC ATTCAITCAA CAATATTCAT TCAACAAATG AAGCAAAGGA GCACACAGCC AAGTGATGGA GCAAAATCAC
 AAATTAAAAG GTAATTCAGG CCAGGTGAGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GAGGCCGAGG CAGGTGGACC
 AGCTGAGGCC AGGAGTTTNA GACCAGCCTG GCCAACATGA TGCAACCCCG TNINTACTGA AAATACAAA ACAAACAAAC
 AACATAAAAA AATTAGCCAG GTATNGTTTG CAGGCGNCTG TAATTNCAGC TTAGTCAGGA GGCTTTGGCA NGGGCTTCAG
 TTAGCCAAGA TCGGACCCCT NCACTTTCAG CCTGGGTA

SEQ ID NO:1363: (Length of Sequence = 312 Nucleotides)

TATTTAAATA ACGTGCAATT TCATAAATCA GCACATTTAC TAGATAGGTA GGATACTTTT NATCCATTTG TGTGTTAAAA
 AATTAGCGCA TGTTTCTCTT TATGCCCACT TGTATTAGCA GAATAGTGTT TTCGGATTCC CTGAATGGNT CTGTATTGAG
 TCTGTATAGA CCCCGAAGGA AAAGGAGGAA TTCGCCGTGC CCGAGAATAG CTCGGTCCAG CAGTTTANGG NAGAAATCTC
 TAAACGTTTT AAATCACATA CTGACCAACT TGTGTGATA TTTGCTGGAA AAATTTTGAA AGNTCAAGAT AC

SEQ ID NO:1364: (Length of Sequence = 345 Nucleotides)

CTGACAGATT TACAGATGCT GACCTATTGA AAAATACCAC AGCCAGAATG GGCTAAACAG GTATATAGTT AATACAACCA
 CCACCATCCT TTAATTTTAA CATAGCTCTT AGTAGGAATT TCATAAAANT GGACATCACA GCTAAAATGC ATTATTAATT
 CTCCTATCTG CTGACAATAA AAAAGCAGCA AACTCAATGA TTCTATTTA AATGCACTAG ATGGGAATAT CATGTTCTAG
 GGGTGTTCG CTTCAAACCA AACCCACAGC AACACACACA AGCAATTTG GTATCCACCA TTTTAAATTC ACAATCTGAG
 NCTAAATGAA TGGCTATTTA TATTT

SEQ ID NO:1365: (Length of Sequence = 255 Nucleotides)

CTCCAGAAAG CCATTGATCT GGTGACGAAA GCCACAGAGG AGGACAAAGC CAAGANCTAC GAGGAGGCGC TCGGGCTGTA
 CCAGCATGCG GTGGAGTACT TCCTCCACGC TATCAAGTAT GAGGCCACACA GCGACAAGGC CAAGGAGAGC ATTCGAGCCA
 AGTGCGTGCA GTACCTAGAC CGGGCCGAGA AGCTGAAGGA TTATTTACGA AGCAAAGAGA AACACGGCAA GAAGCCAGTC
 AAAGAGAACC AGAGT

SEQ ID NO:1366: (Length of Sequence = 322 Nucleotides)

AAAAAAAAA TTCAAAGAA ACAGAGTAAT TTTCTCTCTT GCCTCAGCCC TAAGTCATCT CCCAGACAAA AAAGCAATCA
 TCATTGTCAA ATTTAAAAGG GAAAAGGAAA GACTTTTATT TGANIGAAA GATTTTTTTC AGTGTGATAG AGAGGGAAGA
 CTGAAATAAA CAGAATTTAC AACCTTCGCA CCTTTGCACC TTCTCTTCT AGCAGTATGG CAAACTAAAT AACTTGCACT
 GAAAACGGGT TAAAAAGCTG TATACTTTT TAAAAATAT ATTNGNTTA TGTATTGAT CTGCACAGTT TTGAATACAA
 AA

SEQ ID NO:1367: (Length of Sequence = 349 Nucleotides)

GAAAACAAGG TCAACATCAC TCATCATTAG AGAAATGCAA ATCAAAACCA TAGTGAAATA CCATCTCACA CCAGTCAGAA
 TGGCTGCTAC TAGAAATAAC ATGCTGGTGA GGCTGCAGAG AGAAAGGAAT GTTTATACAC TGTTAATGGG AGINTAATTA
 GTTCAACCAT TGTGGTAGAC AGTGTGAAAA TTCCTCAAAG ACCTAGAGAC AGAAATACCA TTTGACTGAG CAATCTCATT
 ACTGGGTATA TAGCCAAAGG AATATAAATT GTTCTACTGT AGAGAAAACA TGATGCAATG TTGTTTGCA GCACTATTTT
 ACAAGAGCAA ACACATGGGA TCAACTTAA

SEQ ID NO:1368: (Length of Sequence = 379 Nucleotides)

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CTGGGACAGA GACCTTTGCA TTGCTCCATG TGTGGCTTC AGCTGGGACA GAGACCTTTG CATTGCTCCA TGTGTTGGGG
 CAGGTCTTCC ATTTCAATCT CCTCTGCCCT AATTATTAG CCATACTTGT GCTATTTATT ACTTTTAAAC CCTAATCCIT
 TTCCGTAAT TGTGTTACAT TTGTCAGAGT GCCAGCATT TACAATGIGT CTTTTATGTC TCACAGAGGT CATCATTAG
 TTAGACCTTT GGCTTCATGT GTCTCCCGAG AGATGGTTTA TAAATTTGC ATNCTTCTGG CACAGGTGGT GTGGCTTAGG
 GATTAGGACA CAGCCTGCCT GAGTTCACAC CTCATCTCTC CCACCTTAACA CTGATAATT

SEQ ID NO:1369: (Length of Sequence = 319 Nucleotides)

ATTCTGGTC TAAGTTTTAT TATTTCTTT CTCTGCTTG TTTAGGCTG ATATTGCACT TCTTACTCCA GTTTTCTAAG
 GTGGAAGCIT CGACTATTGA TTTCAAATCT TTTTNCCTTN CTAATCTATG CATTCAATGT TATAAGTTTC TGTGAAGCAG
 TGATTTCAIT GCATCCACA TTTTGATAGG TTATATTTCC ATTTAGTTAC AAATAATTTA AATTTCCCTT GAGATTTCTG
 CTTGACTTA TGTGTTATTT GGAAGTGTAT TTTTATTCTC CAAATATTTA GAGATTGCA GCTGTCTTTA TGTATTAA

SEQ ID NO:1370: (Length of Sequence = 343 Nucleotides)

GGAAAACATA AATNTTGACA AGTAGITCAA GACTGTTGGG ATAAACTTAG CTAGAGTGCA GGTTCATACT ACCCATCTTT
 ATAAGGAAGC TGAAAAGGGA AGTAGAGGA CAGGGAGAAC AATGACTTTN TCTCTCAAGC TTGACTTAAA CCACCAGGAA
 AGTTCCTTAAA GCCAAAGCCT TTCTCAGACT CTCACCAAAC CATAAGAGTC AGAAAAATGG TCGTTTTCAA AGGAGTAGAA
 AATTCTGTAC AAAGTAAACA ACAGCTGAAG CAGGAAAGGN ACATACATTT NNTCACTTAG TGGCAGCAG GCAAAACAGA
 ACATAGGGCC AGCTTGGTTA TTT

SEQ ID NO:1371: (Length of Sequence = 295 Nucleotides)

ATTCTINCCT GGGCGCGGAT GATCTGAGCA ATGCCCCCA CAACTTGGT TTTCACTACA ACATCGTCGT CATCAGCTTT
 GCCAAAAGCT GCCTTCTGGG CTGCAAGGAC AAGATTGINT GAGGCTCTTT TCACAGCATT TCCTGCCGCC TGTAGCCGCC
 TCATGGCCTC TNAATCCTGG TCGGCCTTCA CCTGTCAGGC CACCAGCAGC TGAGCCGTGG AAGCGGCGAC CTGCTTGGCA
 GATGAGATGA GCTTCTCCTC GCTGGCGTGT CCTGAACGG AGGCAITGGC CGCCT

SEQ ID NO:1372: (Length of Sequence = 340 Nucleotides)

TTTGCTTTCA GATAATGTTT CTGTATACTT TATAAATGCT ATCTGTGGTA TCTCCTGTAT AATTNACAAT GTTTCATGT
 AAAAAACAAA ACCCATAGAC CTTAAAAAAA AGAAAAAAG AAATATACAC TATACATAGG CACAGCTTAT GCCCAGAGCA
 TAGCAGGTGC ATAAACACT GTTGCTATAA ATGCAAGAAA AAGGTCATT AACCACAATC ACATTTTTTT NCATAAGNEN
 GTCTGAAATC TATACAATAT ATACATCTAT GTTCAATGT GGAAATAATA TTCTTTTAAA TTTCAAGGCG TGTATACCC
 CTGCAAGCCT GCATAAATGG

SEQ ID NO:1373: (Length of Sequence = 315 Nucleotides)

AATCCTGGGG GTGATTTAGA ACTTAGAGGC AITCTCAAAA TGGACCAAGC TAAATGGTAG CCTTTATTIN CTGTAATGAT
 TCACCATGGG AAAATTAGTA ATTCTTTAAA CTCTTACTT AATCTTATAT GTATTCCAAA TTINCTAAAA AGAAATTAAC
 CTAGAGGTTT TACAGAATC CATTTTTTTT TTATTNCCA GAAAGGAAAA ATTTATCTGT NCTGINATTT TGTAAAAAT
 CCTATTCCAG CTACTACTAT GGAAAAAGGA AAAGAAGAAA GGAGGAAAGG AAGGGAGAGA GGAAAGGAAG GGACG

SEQ ID NO:1374: (Length of Sequence = 327 Nucleotides)

GAGCCAGTGG TGGCCCCCAA CAGCCCAATC TGGTACTCAG TCCAGCCTAT CAGCAGAGAG CAGATGGGAC AAATGCTGAC
 GCGGATCCTG GTGATAAGAG AAATTCAGGA GGCCATCGCA GTGGCCAATG CAAGCACTAT GCACTGAGAT GCCTTGGCCA

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AAAGGAAAAT ATAAAAGAAA ATAAAATCTC ACATTGGTGC TTAGCAGGAG AATTTTTTAAA GACTTACAAA TCAACAAGCT
GTTCAAATAA ATAATGAATG CTGCAGCTGG CTCCTACATG GGGCTTTNAG TGTCCCANTA GTAGCAGATG TCCCAGTTCT
ATAAAAT

SEQ ID NO:1375: (Length of Sequence = 338 Nucleotides)

TGCATGGAAA CTTAATCTAT TCAGGTCCCA ACTTTCAGGC TTCTCTGCTC TGACAAGTAC TAGAGGCCAA TATGATAGAC
TAGTCTGAGT TGGATGCAAG TTAGCCATTT CCAGGAATGA TACCAGGATA AGTATAATGG TCGTGAATAT AACCGGATTT
TAAGGGAGAA TGATTACACC TGGAAACAAA CTGTCAATAC ACAAGTAACT AGTTGTTAAA GATTTCTAAT TTTGACCAAA
GATTTTTACT TTCTGGTAT AGAAATGGAA ATAAACATTN ACACTTTAGG TTTTGAAAGC AACCACCTCC TAACACGGTT
CTGAGTTGGG GGCCAACA

SEQ ID NO:1376: (Length of Sequence = 307 Nucleotides)

CAAGCCTCCC TCAAAAAAAT CCCAGAGTA ATGAAAATAC AAAGTCTGCT TGTTCAAAAT TATGGTGCAG ATAAAAAAGG
AAAGGGAGGA AGTGATGGAG TAAAGTTCAG ATTAATAATA AACGGAAAGT CACAACAGTC GAAAGGTGGA AAAAAACCGC
AAATGCCCAT GANCTGATGA ATGGATAAAC AAAATTGGT GTGTGTGTAT ATATGTGTAC AAACCTCCTT TTTATGATGA
AATAGTATTT CATGTGTGT GCACATGTTN CACACACANT TTAAATAGTA TTTGTCATA AAAAAAG

SEQ ID NO:1377: (Length of Sequence = 353 Nucleotides)

TGGAATACAC TTGTGAATAC AGTGTGTAGG ATACATTAAC AGTTTTCTGA GTGGGCTGCT CTTTTTCTT CAATACTGTA
TATATTTTNN TTAAGCTCTT CTTTAAAAGA TAAATATTTT TCATACCTCT CTTAAATCCT CAAGGATTAA CTCTGAGTCA
CCATTGTGG TATTTTAAAT CCTTTTAAAT AAATCTCTGT ATTTGCACT GCATCAAAAC AGTAAACAT TTCACAGGGT
AGGATCTGAT GACCATTTTA TAATCAACAT TTTTAGGTAC CACAAGAG ACITTTATGAG CATCCACTGA AATTATGGGC
ATTATGTCAT ATAAATATCC AAAAATCCAT TTT

SEQ ID NO:1378: (Length of Sequence = 315 Nucleotides)

GATTTGGCAA ATATTTGGGT GAGATTTGAA AATAAATTAC ACCACTGATG CACAAGTTAA TGTAATCAA GCATCTGTTT
ATTTCAATTCA GTTTATGCCT TTTTCTCTT TTTTGTGCAG TGCAGTTGGG GTCACAGACT CTCAATTTGA CAAGACACTT
TAAAAGCAGG AGTAGAAATT AGGCAAGGT TTTACAATA TTACAGGAAC TGTCATAACA AACTTCAAGT GGATCAGTTT
ATTTCTGATT TAACTGGGG ATAAACAGTG TTCAATATTT TCCAAAAGAT TCTCCCCATA TAGAAGTCCC AAAAG

SEQ ID NO:1379: (Length of Sequence = 352 Nucleotides)

ACCGCAAAAT TTAGCTGTTT ATTAGGTGTC AAGTCTCTCC TTCTCTCCCT GCTTTCTCTT TCTNCTTTTT CTCCCCACAA
ATCCTCTCAA AACACATACA AAAAGAGAAA ACTAGAAGCA AGATTGGGTC AAACATGAAG AACACAGAAA GCTATTAAAA
TAGCTAGCTT TAAAGGGCTC TTTTTCAGTT TGAACAAAAG TAAAACGTTT TCAAAAGCAA AAACAGAAAA CAGAGCTTCC
ACCCAGATTG TGCAACTTAA TGAGAGGAGG TTAGTGCTGA TAAACCCATT GTGAAATCTA TTATAAAGTG ACAGGTTTTT
CAAGCAAGGA AATCCAATCC AGTTGGGGT TG

SEQ ID NO:1380: (Length of Sequence = 261 Nucleotides)

AAAAATTAG TGAAGACGTG AATAGATATT NCTGCAAAGA AAACATACAA GTGGTCAATA GGTATATAAA AGGTATTCAA
TATCACTAAT CATCAGGGA ATGCAATCA AAACCACAAT GAGTTATCTN CTCATACCTT TNATGATGGC TAATATTAAN
CGAGAGATAA CAAGTGTTTA TGGGGGTGTG GNGAAAAGAG AATGTTTGAA CACTCTTGGT TGAAATATAA GTTGGTAGAA
CCATTATGCA AAACAGTATG A

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SEQ ID NO:1381: (Length of Sequence = 273 Nucleotides)

GCCACTACAC TCCAGCCTGG GACACAGAGC AAGACTCCCT CCCAAAAAAA AAAAAAAAAA TTATTAGAAA GAGGAAGAGA
 GAGATGNCAA AGCCTTTTAC AGTTGGGTGT TGGNGTTAG AGACCCAGTA CCCAGCCTG ACATACCTAC AGAAGCAGTG
 AATTTACTTA TTTACTGTTA TGAAAAAAT AGATGCTGCC AGCCGTGCAC AGCAGAACT ACTATTGANT CATATGGTTT
 TAGCCTTCAC CTTTAAATAT GTCTAATTAT ATG

SEQ ID NO:1382: (Length of Sequence = 296 Nucleotides)

CTCCACAGCT GCCACATAGA ACAAGCAAAT CTGACATCAC AGCTCTTTTA AAAATCTCCC AGAATTCTAC ACTGGAATAA
 AGATCACCCA GTAAACTCAG CTATGTTGAT TCGTAGGAAT TTCTCCTTGG AGTTAATAAT AATCATTAGA AAAAAATAC
 AGGAAGAAAT AACTTCCTCC TATTCTTATT GTGATAAATT GTAACAATAG CAGACATTCG TATATAGATC CTATAAGCGA
 CAAGAGGGAA AATAGGATTT GCAANTTAAG CATCTGGAAT AAATATTTTA GGAAAA

SEQ ID NO:1383: (Length of Sequence = 293 Nucleotides)

CCAAGGACCG GGCCTGCGG CTGCTCTGGG ACCGCTTCGT GCGGGGCTGC CGCGCCGACT GGTACGGAGG CAATNACCGC
 TCGGTCACTCT GCTCTGACCA CTTTNCCTCA GCCTGTTTIN ACCTCTCTTC GGTATCCAG AAGAACCCTG GCTTCTCCCA
 GCGNCTGAGG CTGGTGGCAG GCGCCGTGCC CACCCTGCAN CNGGTGCCCG CCCCAGCACC TAAGAGGGGA GAGGAGGGAG
 ACCAAGCAGG NCGCCTGGAC ACGAGAGGAG AGCTTCAGGC AGCCAGGNAT TCT

SEQ ID NO:1384: (Length of Sequence = 378 Nucleotides)

GGTGGTTTGT ACATGTAGAA AATAAGATGG AAGGCTGAAC TAGGGCAGTG GTGTTGGCAA ATAATCAGAT TTCAGGAATA
 TCACAAAGTG AGNGCCCGAG GATTCTGAC CATTTNATG TAGGAATAAG GGAGGAGCCT AGGATGACTC CCCCAGTTT
 CTGGCTCGAG TAACTGGGAT ATCAACAAGT CATTTAGCAA AATAGAGAAA ATAGGAGAAG CAGCAATTTG AGATAGAGAT
 AGAGGCAATA TAAAGNNTTA TATATTGACC ATGGTAAATC ACCTAAATTC AGAAAGTTGT AGAAACTTG GGTCTGGANC
 TCAGGAAAGA CACTGGATAT GTAGATTGG AAAGTTATCA ATCTCAAAGT GATTGCTT

SEQ ID NO:1385: (Length of Sequence = 204 Nucleotides)

TCATTCTTGG GTGTTTCTCG CAGAGGAGGG NTTTGGCAGG GTCATAGGAC AATAGTGGAG GGAAGGTCAG CAGACAAACA
 AGTGAACAAA GGTCTCTGGT TTTCTAGGC AGAGGACCCC GAGGCTTCC GCAGTGTGTTG TTTCCCTGGG TACTTNAGAT
 TAGGGAGTGG TGATGACTCT TAACGAGCAT GCTGCCTTCA AGCA

SEQ ID NO:1386: (Length of Sequence = 238 Nucleotides)

CCCCATCATG GGCAGCCAGA GCTCCAAGGC TCCCCTGGGC GACGTGACCG CCGAGGAGGC AGCAGGCGCT TCCCCCGGA
 AGGCCAACGG CATGGAGAAT GGCCACGTGA AAAGCAATGG AGACTTATCC CCAAGGGTG AAGGGGAGTC GCCCCTGTN
 AACGGAACAN ATGAGGCAGC CGGGGCCACT GCGATGCCA TCGAGCCAGC ACCCCCTAGC CAGGGTGCTG AGGCCAAG

SEQ ID NO:1387: (Length of Sequence = 295 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTANITAG GCAAGAAGAG GTGTGAGTAA TTGAGGAAAA ACTGACAGAT GCTTTTCCTA
 ATACCAAAT TGAGCTTACA ATTAGGAAT GAGTATGTGT AACAGGNTAC AGGTGACAGT GAAGATAGAA GAACCACGNT
 GACCACAGAC TCAATGTGCT CTGTAAATC GCACAGTTTA CCCAGCATGA CTTTCTTAG GAGGCCCCCT CCTCACGCTA
 GAGTAAAGT CCCAGTTAAG TGAAGCCTAC CAGAAGAACT AGTAGAAGAA GCTTT

SEQ ID NO:1388: (Length of Sequence = 201 Nucleotides)

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GCTAGINATC TCTCAGACAC TTGGTCGGTA GAAAAGATCC CGCACCATCC TCCAGGNTCC AATGGCCTTG GAGAGAGGGC
 TGCAGGGCCC ACGGNCATTG CTGACTCTTT AGAACGTGCT GACATGGAGC CAGACCACTC GGCCCTGAGT GCGGCGAGGA
 CCCINTTTINT GGATGTGGAG GAGCGCGGGC CGGAGCATTG T

SEQ ID NO:1389: (Length of Sequence = 399 Nucleotides)

GGTGCCCTGT TATCTGGTAA AAGAGCCACT TATGACCTCA GGTGCTACTT AACCTGGGGG GCAATTGTTT CTTAGGCCTA
 GCAGATGTTT GGGATGACAC TAAAACTCA GTGGTGAGAT GATTCCCTTA GCAAGATTGC TGAAGTTAGG TTTAGACGTG
 GGAGGGTGGG TATGTGAGCA ATGGTGCCAA TAGCGGCTCT TTATTGCTT TGTCTCATT ACTGCCATCA GGAAGGTGCT
 ACTGGCCTCG AGCCAGGGTG TTCATAATCT GGCCTTGGGT TAACCAGACA AATAGAACTT CTTTCTCTAG ACTGTTGGCT
 TTNTGGAGGT TGGCAGCCTC TATCACAGGN TAAATTTTCC CAAATCCATT TACCCAGTAT ATTCACTACA ATTTTTC

SEQ ID NO:1390: (Length of Sequence = 381 Nucleotides)

GGATTGAGGT GAAGATACAA CAAAGAAAGG AAATTGAACG GAATTATTAA GAGGGTCAAG TTTGATAGGC AGATAAGACT
 AGGTATCAGC AAGACATTTC AAACAAAAGG AACATTATGT AATTTTTTAA AAAAATACAT GAAAATAATA TTTAANCAAG
 GAAGGAATAT GATAAAGAN GGATAGTTAG TAAAATTTGG ATAACATAAA GATTATTGAA TCTCCAGTCG TCAAATTTAT
 CCTAAACTAC TGGGGAGAGG TCTCATGTCA GATTTTGATT ATCGAGAAAG AGGGGTCAAG AGTATAAGNG AAATTCCTTT
 TTGTTTTGAA CTCCAGTGT CCNCTATTG TGGGCAAATA TCAAATCAA ACCAAATATA C

SEQ ID NO:1391: (Length of Sequence = 327 Nucleotides)

GAAGAAGTCC TTCTTAAGCA AGGCTTACAG ACTCCCAGGG AGAACAAAT CTCTTTATCT CTCTGGGGTT TTAGGACCCT
 CATCAAGTCA TAGAATTGAA ATAGAGAACA TCAATTGTNC AACTTTTTAA TTTTAATAGT TTTTGTAGTA CATAAAAATC
 ATGTTATGAA TTATTTTGTG GTTTTAATTA TAACTTTTTT AGCACTTTTA CCATATTCTT AAAAAATAAA AATTATGAGT
 NCTGAGAAAG CAGTGAATC ACATATAGGT ATTTGATTAA CTTTATGTG ATCTTTTACC TCAAGCTAAT GTTCTTAA
 ATCAAGG

SEQ ID NO:1392: (Length of Sequence = 223 Nucleotides)

TTTTTTAATA TTTAAACAA TTTTATTCAT GAAAATATGC TGTACAATGC ACTCTACACA GCCTCGACAC GGCACACACG
 CACACGCACA CTCTGACGGC ACGGCCACGG TACACTGCCT ACGATACGCG CCGGGGACGC CGCGCCACC GCCCGTCCCG
 GCCCGACACT TATAAATATG GGAGAAGGGC CAGAACTNGC GCGGAGAAAG GGGCGTCGGG GTT

SEQ ID NO:1393: (Length of Sequence = 296 Nucleotides)

GAAAGTTTAT TATTTCCCAA TGINCITTTAC ATTINCAATT GGAAATATCA TTCCTGACAG AAATAGNTAC ATTATACCTT
 CGAAAGCAGA AAGATCTTAA TTAATTAAAA CAGTTTACAT TTACCTTAGC ATTAGGTCTG GCTGGCTAAT TTCAAAGGAT
 TAAAAATTGC ACCNATTGG GCCAACTGGG GTCTGAATA ATTATCCNGG GTAAAAGTAT AATATTTTAT ACTTTATACA
 TTTTGCTTCA TCACACATTT ACTTTCCACA CAGTGNICAA CTTCACATTT AAAAAAG

SEQ ID NO:1394: (Length of Sequence = 281 Nucleotides)

ATCTTTGCAT CCCTGGGACG ATTTCCAGTT GAGCATGGTG AATAATCTTT TTGATAGGCT GTTGGATTG AGTTGCTAGT
 ATTTTNTTGG GGCATTTTGC ATCTGINTTC ATCAGGATA GTGGCCTTCA GCTTCTTTT CGTGTGTGTG TGTCCCTGTC
 TTGTTCTGGT ATTGGGGTAA TATTGGCCTT GTAGAATGAA TTTAGAAGAA TTCTTTCTT TTTGATTTT TTGAATAAT
 TTAAGAAGAA TTAGTATTAG TTCINCTTAA AATGTTTGGT A

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SEQ ID NO:1395: (Length of Sequence = 323 Nucleotides)

CTTTTTTTTAA GATTTCAAAC TGGGTTACAC ACTGGAAAAG GCTGGGTAA GGGCCGAAAT TTAATAAATC TGTAAGTATA
ACTAAAGGCT ACAGAGATTT CATATATTTT TTTTAACTTT TAGAAATCAG AGTGCTTATA AAATGGCTGG CTCATGGCTC
TGTCACCCAG CATCTCTGAC GCGCCTCCT AGCCTTCGTT GGTGAGATAA CCNGGNATAG TGATTCCATG CGTAAACAAC
AAGAATACTA AACCAATAAA ACTAGCTTAT CATGCAAATA TTANGGCATC TAGAAAGTCA GTTAAAATAA TATTGTCATA
GAG

SEQ ID NO:1396: (Length of Sequence = 384 Nucleotides)

TGCTTCCCGG GTTCATGCGA TTCTNCCGCC TCAGTCTCTT GAGTAGCTGG GATTACAGGC ATGCACCACC ATGCCTAATT
TTTGTAAGTA TGCCAGCACT TTCTTAGCAA CCCCAGCTGG TGTCCTAGTA TGCCCCCTCC AGTCCACTGT CTCTGGGCCC
AGTTCAGCGC TAGGACTTGC TTAAGAGTTT CAGTCTTGT AGCCTTACT GCTTTNACG TTTATTTAGA GATCTAGAGC
ACTTTAACC TCAGTGGCAA GGTGTGTTG AACTTGAGTT CGGACCACTG GGATTGGCAA ATTCCCCTCT GGGCTAGGGT
TGCTTTAAAT GCTCCCTTCA CGTGTGGGCA ATCAGCTGAG TTGGTCCAG TTTCTTTT TGCT

SEQ ID NO:1397: (Length of Sequence = 370 Nucleotides)

TTGAGTTTNT TCAGTGGCAT CCCCTGCTCC CCGTAGCACA CACAGTGTTC TCTATTTATG ACTGTAGTGC CAAGCAGAAT
TTCCATGTC TTGCTAGCTG CCCATTCTCA CCCCTCAGGG TCTCATACTT CTCCCTGGAA GCCTCCCAAG CAGTCAATGT
GACAGGGACC AAGTATGTAC AAGGCAACAT ATTGGGTTC AGTGCAAACT AAGGGAACCA GGGCCTGTTT TTCTAGTTG
GAAGTTTTTC TTATCTCTAA GAAAAGAGAC AGACCAAAAC CAAGAAGATC AACATAACT CTCTCTTTG TCATCAGGT
GATGACATCA AGTACTGAT ATTAACCAGA AGTTACAACA AGAAGGAATT

SEQ ID NO:1398: (Length of Sequence = 307 Nucleotides)

ATCAGCATTG GGTTTTCACC AAAGTGATAC AAGTCTGAAG GTCTTCATCA GCAGTCTCCC TCATAGTCAG CGCCATACCG
AAGAGGCCTG TCCTCTCAT AGGGCCTTCC AGCCACTNCT TCCCCACAGG CCGATTCTN CTGTGGCTGG GAGTGTGGAC
TGATTGTGA TGATGTGAGA GATCCCNNGG GGTGTGAGCT ACCGCACCTG GCTGAACCTT CAAGGAGAAG TTTGTGCATC
ANTTTTCAAA AATTATGAT ATCAAAAGAT AGCTGTGCCC TACATTGGG AAAGATACAA AACTTG

SEQ ID NO:1399: (Length of Sequence = 380 Nucleotides)

CTGAATTATT GAGGATGAAT TGATAAAGAC AGGTGTAATG AACTGAGGCC GGGCATTAGA CTGAGCAGCT GACTGTCCCT
CAGAAACCAT AACCTTGCTA CCGCATTGG GCATTGTGAC AACTGTTGAC ATCAATGCAG ACTGCAAGTN AGTTGGCAAA
GCTGCTGATG GTTAGCTGA AGTTGTGATG GGATTGGAAG TGACAAATAC AGTTATTTGA TTTGGGGGCA AGGGAGTGA
AATGGAGGAA GAGCTAACAG GTCTTGACAT TACTGGAGGG ATGCTTGGTG CAACGTTAGA ACTGACCTCA CTCAATTGG
GGATGCACAA GGGATGAACA CAGCTCATT CTGTINAGGT AAGTTTAGGG AATTAGAAGG

SEQ ID NO:1400: (Length of Sequence = 232 Nucleotides)

ATTATAGATA CACACCACCA CACCGGCTC CTCACATTAA AGTGGGNITA TGACCATGAA CACTTCGTAT TAATAAATGT
CTCAGCACAC CCAAGCCTGA AAATCTGATC TAAACCTCCT TAACCTGAAT TCCATCCACA ATCCACAACCT TNCCTGGNAA
AAATNTNTCC CAGCTTCTCC TTCTCTAGC CCAAGAAACA GCCTTAACAG CGNGOGATTT CATTCCTACA CT

SEQ ID NO:1401: (Length of Sequence = 349 Nucleotides)

AAGCTAAATT TATAATGAAC AGATTGAAGA AAAATAAAGA GCTACAGAAA GTTCAGGATA TCAAGAAGT CAAGCAAAAC
ATCCATCTTA TCCGAGCCCC TCTTGCAAGC AAAGGGAAAC AGTTGGAAGA GAAATGGTA CAGCAGTTAC AAGAGGATGT

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GGACATGGAA GATGCTCCTT AAAAATCTCT GTAACCATTT CTTTATGTA CATTGAAAA TGCCNTTGG NTAATTGGAA
 CTGCTAAATT ATTTTATTTT TTACATAAGG TCACTTAAAT GTAAAGCGGT TAAAGACAT CTTTNCINGC ATTGCCATCT
 TAATATC AGATATTACG GGATGTTAG

SEQ ID NO:1402: (Length of Sequence = 338 Nucleotides)

GTAATTGCTA TTGATGTTA TTTTAAGAAA TTAACCCTTA AAACTTAAT TCCTTAAAC AATCTCAAAC AGAAGAAGCA
 AAAGCTTGIN CTGTGCTCCA GGAAATAAGA TTCAGCACCA ATGAAAATAA ATTATAGAAA ATCAGAAGAT GGGTCAATAT
 GAGTGGAAAA AACCTAACAT TTTAATTGTT TTTNCTCTCA ATAATTGTGT TGAACCATCC AAAAAAGTAT GATACAAAA
 TAGCACTATA CTAAGAGCCA GATGACATGT CCTTAAAGCC TTAGCTCTGC AAATTATTGG TTGTGTAACA CTAGGNGACA
 ACACTTAGNC TCTCCTAG

SEQ ID NO:1403: (Length of Sequence = 381 Nucleotides)

GGAGTCTCAC TTTGTTGCCC AGGCTAGAGT GCGANGCGT GATCTINGCT CACCACAACC TCCATCTCCT GGGTTCAAGC
 GATTCTCCTG CCTCAGCCTC CTGAGCAGGT GGGGTTACAG GTGCCGCCA CCGCACCAG CCAACTTTNT GTTCTCAGCA
 GAGACGGGC TTGCCATGT TGGTCAGGCT GGTCTCGAAC TGACCTCAAG TGATTGCCC ACCTTGCCA CCCAAAGTGC
 TCGGATTATA GCGGTAGCA CTTCACCTG GCCTCTAAGC TTAATCATTT CTAGGCTTTT NATTTAAAGT GAGAAACATG
 TGACTCTTC CTTTCATTG GGACACTTA AAAGGGGTTA TTAAATTGAC CCTAATTACA A

SEQ ID NO:1404: (Length of Sequence = 325 Nucleotides)

AGCTCATCAG CIATCATTG TGTTAGTGT TTTNATGTAT GGCCAAGAC AATCTINCTT TTTCCAGTGT GGCCAGGGA
 AGCCAAAAGA TTGGATACCC CTGACAGGAT TCCAGGATTC TTTTGTAAT NCTCAGAGGC CCTCTGTGCA TACTCGTAA
 GGACTATCCA CATTCTTTAT TACTTTTATT GGCAATAGGT ATAAATTTT ATTGTTGGN TATTTTACTG NAATGTTACT
 TGTTTTTGCT TATTTACTGA TTGGGTGGGA GGAAGTCAAA GGATGAATAA ATCTAACNT TTTTAAAAG GAAAGGCTAA
 AAATA

SEQ ID NO:1405: (Length of Sequence = 349 Nucleotides)

GGATTATGAC TGAACGTCCT CAGCATGTTG GCCTTCACCC CTGGCGGTGG CTGGAACACA AAGATGCGGC CCGCAGGAG
 CAGATTCACA GGCACCTTGG GGTGATCTC CATGGTTAGG AAGAGTCGGA AGCAGGCATG CCGCTGCAGG GAATGCAACT
 TCTTCTCCAG CTGCATCAGC CACCCTGGGG CCAGATGCAC ATTCTTCAGC ATCACCACC TGCCCGANTT TACAAGCGGT
 GTTTTATTGC CTTATCTGCT TNGTTAAAGC CTTCTTCAGA GCGATTGCA ATTGAAGGGA TCTTCGGGT TCTNCTCGGC
 TNCAAAGGTC CTCGACAATG TTCCCTTG

SEQ ID NO:1406: (Length of Sequence = 392 Nucleotides)

GGACTGCCCG TTGTTTTATG AGACAGGGTC TCATTCTGTC ACTCAGGCTG GAGTGCAGTG TCATGATCAT GGCTCACTGC
 AGCCTCGACC TCTCAGGCTC AAGTGATCCT TGCACTCAA CCTCAGAGT AGCTACGACT ACAGGTATGC CCCACTATGC
 CTGGATAATT GTNCTTTTT TTTTTTGGT AGAAACAGGG TCTCATCTG TTGCCCAGGC TAGTCTCAA CTGCTGGACT
 CAAGTGATCC TTCCAACCTG GCCTCCCAA GTGCTGGGAT TACAGATGTG AGTCACAATG NCCAGCATGG ATTGTCCTTT
 TCAGACCCAG ACCAAAGAAC AGGACTTATT TGTCCCAAGA CCAATCTAGG NAAAGTATAA GCTGTGTTGT CA

SEQ ID NO:1407: (Length of Sequence = 362 Nucleotides)

GTTAATTGGG NTTCAACAAGC AATAATTTCT CCACAACAAA AACCACAACT TGAAGNGAGT TGAAAAGNGN TCAATAGTGG
 AAACAGTCGC CTCAGTACTT TNCITTTCTG GNTTTCATCT CTAGAAATTT NAAGTGTTN AGNCAGAGTC CACCCTTTGT

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GCAAGGCGNG AACCNATGAA TGGACTCCIT GTGIGAATTG TTGCATCTTC TTCCAAAGCA GGTTCATCAA GACTTTCACA
GAGATTCAAT TTINTTGAGA AGTAAGGGTT AATAGGAGGA TAGAATTTGG TTCCNAATCT AGTGNTAAAA GTGTCCAAGC
AAATCAAAAA GTAAGATATT TTAGGGGCCA TACCCACATC TT

SEQ ID NO:1408: (Length of Sequence = 388 Nucleotides)

CCCCGCAGCA CCACGAGCTG ACCTCGCTCT TCGAGTGTCC GGTCGCTTT GACTATGTCC TGCCCTCTAT TCTGCAGTGC
CAGGCCGGGC ACCTGGTGTG TAACCAATGC CGCCAGAAGT TGAGCTGCTG CCCGACGTGC AGGGGGCGCC TGAOCCCCAG
CATCAGGAAC CTGGCTATGG AGAAGGTGGC CTGGGCAGTC CTGTTTCCCT GTAAGTATGC CACCACGGGC TGTTCCTGA
CCCTGCACCA TACGGAGAAA CCAGAACATG AAGACATATG TNAATACCGT CCCTACTCCT GNCCATGTCC TGGTGTCTTC
CTGCAAGTGG CAGGGGTCCC TGGGAAGCTT TGATTGTCCC ATNINAATGG AACGGCCAC AAAGAGCA

SEQ ID NO:1409: (Length of Sequence = 348 Nucleotides)

CAATGAATC CTTAAGCTTT GTTAATATGA GAATGTCTTT ATCTCTTCTT TATTTCCAAA GGACAGCTTT GCTGGTTAAA
ATATTCTTGG TTAAGTTTIG TTTTGTAGTAC TTAGCATATA TCATTCCACT CTCTCCTGGC CTGTAAAGCC TCTGCTGAAA
GATCCACTTC TAGCCTTATG GAAACTCCCT TCTATGTTAT TCGNTTCINC CTCTGTCTGC TTCCAACATC CTGTCTTTGT
CCATAATTTG TAACAGATTG AATATAATAT GAATTAGNCC TCTTTAGACT GAATCTCAT TGGAGCTTTT CACCTTCTT
GTTTTGGGT ATTTAINTCT TTTACAG

SEQ ID NO:1410: (Length of Sequence = 370 Nucleotides)

GACTATTTAT TCTGCCTTAA ATCAATGGCA AATAAGTCAA GATGACATTT TGTAATGTA GACTATGGAT ACACTCCTAA
TAGATTGATG TAGTCATAAA AGGGGGTCAA GTAGATGTTT TNCGTGTTATG TAAGCAATAA TTTTCCCGTG TCTTATTGAG
TATGGCTAGC GATTATTTAT TACATGCTAG ATGGGTCTT TGATGTGGG TTCCATATAG GTGCAGAAAT TTCTCAGCC
ACTGGAGGGA TTTCGACCAT ATTTGTCAAT TGGATGAGCT GTTATTAGAT TGAAATCTAC ACATCATTTT ATTAAAAATT
GTGCCCTAGA AAACGCAAAG CTNTTGACA ATGGCGATTA AAATTATGGG

SEQ ID NO:1411: (Length of Sequence = 385 Nucleotides)

GTCTCAAAC CTGACCTCA GCGATCCAC CCACCTCAGC GTCCCAAAGT GCTGGGATTA TAGGCGTGAG CACCGCACCT
GGCCTATGAG TGGTCTTTTA ATTAGGAAAT TTACATTTT ACATTAGTGA GATTGGTCTT TTGGGCTATT GTACTTTTTT
TTTTTTTTT TTGAGATGGA GTCTTGCTCT CTCACCCAGG CTGGAGTGCA GTAGTGCAAT CTGGCCAC TGCAACCTCT
GCCTCCTGGG CTGAGTGAT TCTCTGCCTC AGCCTTCCAA GTAGCTGGGA CTACAGGCAT NTGCCACGC ACCTGGGGTA
ATTTTNGTGG TTTTGTAGTAG AGAATGGGGG TTTTGCTAAT GTTTGGCCAG GCTTGGGCTT GAAAT

SEQ ID NO:1412: (Length of Sequence = 337 Nucleotides)

CCATTCAGAT TCCTCCTGGG CCTCCTCGCC CCAATTGCGA CAGATTTGCT ACCTGCTCCA GCTCAGCGAC CCTTCCCTCT
ATGATGAAGT GCATGAAGA GAACAATGGT GTGGACAAGA GGATCAGCAG GTTATTCTC CCCATCGGGG CCACCGTGAA
CATGGACGGA GCAGCCATCT TCAGTGTGT GGCCGCGGTG TTCAATGCGC AACTCAACAA CGTAGAGCTC AACGCGAGAC
AGATTTTCAC CATCTAGTG ACTGCCACAG CGTCCAGTGT TGGAGCAGCA GCGTNCAN CTNGAGGGGT CCTCANCATT
GCCATTATCC TGGGAGG

SEQ ID NO:1413: (Length of Sequence = 367 Nucleotides)

ATAAGTGGAG TGAAGAAATT AATGCATAGT TCAAGCCTAA ACAATACAAG CATCTCAGC TTTGGAGTCA AACTGAAAA
TGAAGATCAC CTGGCCAAGG AGCTGGAAGA CCTGAACAAA TGGGGTCTTA ACATCTTTAA TGTGGCTGGA TATTCTCACA

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ATAGACCCCT AACATGCATC ATGTATGCTA TATTCCAGGA AAGAGACCTC CTAAAGACAT TCAGAATCTC ATCTGACACA
 TTTATAACCT ACATGATGAC TTTAGAAGGC CATTACCATT CTGACGTGGC ATATCACAAC AGCCTGCACG CTGCTNATGT
 AGNCCAGTCG ACCCATGTTT TCCTTTCTAC ANCAGCATTG GACGGTG

SEQ ID NO:1414: (Length of Sequence = 360 Nucleotides)

GTATACAGCG TGGTCCAGCC ACCCGACAGC GAGATGGGCA TTTTAAGAAA CGCTCTCGGC CAGATCTCCG AACCAGAGCC
 AGAAGGAATC TNTACAAAA ACAGGAGTCA GAACAAGCAG GGGTTGCTAA GGATGCAAAA TCTGTGGCCT CAGATGTTCC
 CCTCTACAAG GATGGGGAGG CTAAGACTGA CCCAGCAGGG CTGAGCAGTC CCCATCTNCC AGGNACATCC TCTGCAGCAC
 CCGACCTGGA GGGTCCCGAA TTCCAGTTG AGTCTNTGGC TTCTCGGATC CAGGCTNAGC CAGACAACTT GGGACGTGCC
 TCTGCATCTT CAGACAGAAT TNCTAGCCTG CCTNAGGAAA

SEQ ID NO:1415: (Length of Sequence = 314 Nucleotides)

CTCAACACA GCATTTGAAG TCTTAATATT TTAGTACATA CTATACTATC TCINCTTACA ATTGTTTTTT GTTAAAGAAA
 CCAATGTTTTT NATTTCTAAG AGTTTCCCTT ACTGTGGATT TTAGTGATTG CATCTTTGTT GATGGGTTAA GATTGTCCNN
 ATAGCAT TAGTNCCTTC AATGTGCTGT ATTCACTGCT GCCTCTGGGC TCCTAAACTG TGGAGGGCTG TTTGTCCCTA
 TTTAAATGG GGACAGATTG TCTGTCTTTT TAATTTTCAA TGCCTGACTT TTACCCNCTA ACTTTTCCGT AGAT

SEQ ID NO:1416: (Length of Sequence = 370 Nucleotides)

TTCCATTTTT GCTCCTTCTC AGGATAATAG CAGACCGGTG ATCACAACCT TAGTTTGTAT GAGATAACCT CCTTATCTCT
 TAAAAATGGT CTCATTAATT TTCCAAGAGA AGACCAGTAA AACTAAACA CCTGCCTTGA TCTCAGTGTC TTAGATGTTT
 TCTGTCTTCT CCTTTATCCT AGCAAACCTC CCAGGTGTCT ATTCTTATTC CCATTTTATA GATGGGCAAC TGGGTAAGAG
 AGGTAAGCTT GGTGAGGTCA CTGAGATAGT GGGGAAAGGA GCTTGGTTCA CATCAGGTAT GCATTCCTCC AAGGTTCCAC
 TGGGGCATCT GAAGGAAGGG GTTCTGTGAA GTGCAAAATA TAGGGTACTG

SEQ ID NO:1417: (Length of Sequence = 365 Nucleotides)

GACTCCTTCG CCAAGGGAGC CATCAGCAC AGTTGTTCCT GAGCAGCCAC AACACCAGTG ACCTCCCTTC TGCTTCGGGC
 CAATCCCGAC AGAGCCTCTT CCGAGTCTT GAGCTCCTGG ATAGCTGCCT CAATAAAGCA GGACTCGGGA GTGTGCTTCT
 CCTCTGCCAG CTGCTGCTCT AGTGCTACTT TCTCCTCCAG AACTACCCGG TGCAGCACCT GCTCCTTAGA GGCCAGCAGC
 AACTTGGAGT ACTGGCTGTG CTGTTTATCT CCTAGATGAA TGGGATGGTC TACATTTCATC CATTTGGGAT TTTGGGCAAA
 AGCCACCAAC AACCCCTTTT TTTCCCTCTT CAATCAAGCT GCAAT

SEQ ID NO:1418: (Length of Sequence = 354 Nucleotides)

CCAAATCCTT AAGTTTACAA AGCTGTGGA AAACCTTTGTG TCCTGATTC AACATCAGC CTTGTGTTGA AAGATGAGCC
 AAGCTCACAG AACTAAATT TTATGTCATG CCATAAGCTG GAGAGGAGCC ATTTGGCTAC AGCTGCGGAA CTTTATTGAG
 GAGCAAATGA AAGGCACATG GACGAGCAG CTGGTGCACT TCATGTTCTT CTGCTGTG AATTGAATAC TGCTCTGGTA
 GCAGTTTGG GTGCGTCAGG AGCTCAAGGC TGGTTTGTGT GGCTGACTAC GGATGAGCAC TGAAGTTGCC TCAAAGAATT
 AAGGGGTGTC CACANCAGCC TCTTGGGGTC TTTT

SEQ ID NO:1419: (Length of Sequence = 363 Nucleotides)

GTGGAAACG TGGAAATGAT GTGGCCACTG AAAGAAATTC AAGACAACTG AAACAACCTG AGATTTCCAT TTTCAGCTCG
 TGTCTTCTTA TGAACAATAA CATTGCAGAA GGGGAAATAT CAGAAAGTTG ATTGATTTTT AACCCAAAA TAGAATTTTT
 TGTAAGCTAG GAAAGCATCT AAAATTAACA AGAATACAAA AATGCACCTT TGTTTACATT TGCTCTATTT AGATCTTACA

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AGAGATTATG TCTTGAATCT ATCTGACTT CAGCAAAGA CAAAGAAGC TTGAAAACAT CCTATTTCCA AATCGTTTAC
AGGAAGTTAC CTAAGGAGNC TGACAGATTC AACGGCTGCT ACC

SEQ ID NO:1420: (Length of Sequence = 326 Nucleotides)

GAAGATTTTC TAGAAGCAAA TAGTGCCACC ATCCGTCATG AGGNTCTGTT TCTATAACGC TTGINTGTCT TTNAGACTAC
GTAGGTGGTA GCTTATGAGT AGTAATGTNC TTTTGTAGT AAATGTCACC AAATAAGCAA ATAAGAGAAA CATGAAGGCC
AAAAACTGTN TTACTATTCA GGAGAAAATG GACGGTTTAG CAACAATACA ATGTAGACTT CAAAATATGA AAAATCAAGG
AAATTNCTGT CATTGTCITT AAGGGCCTCC AGAGAAGTAT TAATTTGTCC TTTATGTGAA TTTAATGAGA TCATGTGAAA
TGTATG

SEQ ID NO:1421: (Length of Sequence = 294 Nucleotides)

ACCCAGTACA GGTACTCTCA CAGGAGGCAC TCAGCAGGGA TGTAGTGACA GCAGGTAAGA NTCCACCTCT NTCCCTGCCT
GCNCTGGGA TCCAGTATTG GCCCATGTAT CINCCTCAT TCCTCAGGCT TCCIGGACTT TINTTGGAGG GAAAGAGGAA
CAGAAAGAGG AGCAGGCAGG AGAAGCAAGA GCTCCCGGG GCTATGAAAG GTAACATACC TGGAGAGTTT NGGGAGACGG
CGGCTTGTA GAGACAAGGG GAAGAGACAG AAACAGGAGT ATTCTAAGAA GCAT

SEQ ID NO:1422: (Length of Sequence = 306 Nucleotides)

GAAGGGCATA TTTAATAGCT GCTGCAAACA TATGGAATAG TGCTTTAATC AGTGGTGAAC AAGAAATTGC CTGTGTGTGG
TTATAAAAAC AAGGGACATT AATGINCTTG TTCTGTACC ATAGTAATGT GNAAAAAAA ATAGTGGTGT NAATGGTGT
TAATTTGTAC AGTTGTGTG CAAAGTAGAAT GGCNCAGATA TTTTGGTGA TAGGCTTTTG TCTTAGTTAT AAAAATTAGG
NCATTTGGTA TGATAAAGGC NGAGAATCTT AACAAATGGG CACTGGCCCA GAAAATTNCA GGGTGC

SEQ ID NO:1423: (Length of Sequence = 274 Nucleotides)

TGTGTGTGTG TGTGTGTGTG TGTGTGAGAA ATGGGGAAAG ACTGGTCTAG ATAATATTTT AGGTACCTTC CAACACTAAA
ATGGTATGAT TCCCAGCTTA CAAAAAGCAA ACTATTTTAA TATTCACCAC TCAATATAGT GTATCAAGCT CTCGGTTTAT
GTTTAAGGGC TTAGGNCACA GCAGCAACTA TTCTGTGGCA ATTAATNCAA AAACATCATG TACCAAAAAG GCATGTTTAT
GNCCTGCAGG ATAGTGAAAA AGCAAGAACA GTCT

SEQ ID NO:1424: (Length of Sequence = 297 Nucleotides)

GGAGGATTAC TTGAGCCAG AAAAAAAAAA AAGCCTCAGG GGTTCGGTG AATGTTGTGT GGACTTCOGT GAGAACAGAC
GTTTGATGTG AACTGANITC AAGGCTGATA CAGCCAGAA CCAGNACAA GGTGAGAAAC TGCTCGTTTC CGGGAGGCAG
GACTTCCTAA CCGGAGGCA CTGCAGTNC CTTCTGAAA CAGGTTTGA GGATAGGGAA ATTCTGNC GCGCGGGGG
ATCCACTTAG TTTCTTAGNA GCGCCGCCA CCGCGGTGA AGGCTCCAGC TTTTGT

SEQ ID NO:1425: (Length of Sequence = 276 Nucleotides)

ATTTTTTCAA GGATGAAAG GTCAGAGAAA AATAAAATAA AACATCTTTC AATAGTCTTT CCTGGTAAAA GCAGGTCTC
TNTGGGCTGG GGAGTAAAGG GTGTGGGCA AGGGAGTGG GGAGAGGCTG TAAACCTTCC CCCAAACCC AGTTTTAGAT
CCTTTGGTTT CCTTCTCCCA GAAGATGNC AGAAGGCAT NGTGGGNAAC AGCAGGNGG AAAATATGGT GATGACAAAC
CCCAGATGAT CAAGGGGCTG ATGCTCCTGG GCGCCA

SEQ ID NO:1426: (Length of Sequence = 295 Nucleotides)

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TAGTGGCATA TGGACCGGAA AGGGTTAATT TAAAGGGGGG GAACCTCAAA AGTTTTTTTA AAAAGAAAC TTGTCTGCCA
CAGTATGTTA CCAGTGTTAA CCCTTCGCC AGTTAGCAAA CTTTGGCCTT AAGCCTTTT CCTCTAGGAT ACTCCCCATG
TTTCGGTAAT CTTGGGCATA CATTTTAA GNATGGACCT CTTTGCCTTG TTTTGTMTTC ATGCTGCTGT ATGTCCAAGT
ATTGTTAATT TCATAATAAG ACAAGAGTTG CTTTCTTTT TAATTCCTT TTCCC

SEQ ID NO:1427: (Length of Sequence = 207 Nucleotides)

TCAGGAATGA TAGTATCTGG GATGAACCTC TCCTTAATAA GATTTCAGGCC AGINTTGGTG GGTGTNTGCG GATGATTGTT
ACTGGNGCAG CCCCAGCATC ACCAACAGTT CTGGGAATTT CTCGGGGCAG CTCTAGGGTG CCAGGTTTAT GAAAGGTTAT
GGCCAACTG AGTGCCACAG CTGGATGTAA CTTNCACCA CTCCTGG

SEQ ID NO:1428: (Length of Sequence = 223 Nucleotides)

TAACTTCTC TCCAACCTCC CCAGGTCCCA TCAGTGTTGA GAAGGAATCT AGGCCAGCTC CTGGGAGATG CCAGTTAAGC
CGCTTTGAAT CCTGTGCCCT TCCAATGNC CTTATAGCA GTCGATGTCA GGGATTGGGA CAACTTTCAA AACAAAGTCCA
TCAAAGTCCC CATGGGCACT AGGGGCTCTG GGAACCCAGT GTCGAGAGGC TTAGAGNCAT TGC

SEQ ID NO:1429: (Length of Sequence = 222 Nucleotides)

AAAACCAAGG AGCAAAGGGG AGACAGAGAG AAAAGTGGGA TGGATTCAAA GACATTGCAA CATAGAACTN ACCGAACTGG
CTGTINTGAG GTAAGGGNGG CAGGATGACT CACAGGTTTC TGGGATTATG TGCAACAGGT GGAAGGTGAT GCCATTAGCC
AGAATAAGGC TGTAGGCTNA AGGGGAGTNA AACTGTTCT GGGGTATAA CATTGATAGG CC

SEQ ID NO:1430: (Length of Sequence = 246 Nucleotides)

CAAAATTTCC TGTATCCTTT CATGGGTTIN CTTTGTGTTG TTTTGGTAAG AACATTTAAC ATGAGATGTA TCTTTNAGTT
GTGTGTGTTG TTGANTTTT TTAGATACAT AGTCTCACTC TGTTACCCAG GACTGGAGTG CCAGTGGACA TGATCCACAG
CTCACTGACA GGCTCAAC TCCTGGGACC CAAATGAATC CTTCCACCT NCAGCCCTCC CAAGTAGCT AGGGACTACA
GATGTG

SEQ ID NO:1431: (Length of Sequence = 364 Nucleotides)

CTTNCACCTC GATGATGCTT CTATAATTTT GCCCTTTAAC AGAACTTTC AAAAGGGAAG AGTTTTTGTG AATGGGGGAG
AGGGTGAAGG AGGTCAGGCC CCACTCCTTC CTGCAATGTT TACAGTCATT GGAATAAGG CATGGCTCAA ATCGGCCACA
GGGNCGGTGA CCTGTGCCC CAGGGTTTTC CCCCCAAGTG CCTCCATTTA AAAGCATTAA GGCCGGTACG GCATCTTCAA
AACAGAGGGC TGGCATTGGA GGAAACCTT GCTGCTTTAG TCCCGATAGG GTATTTGAAC CCCGNTATA TTTTAAGGCA
TTTTAAATTC TCTCCCCCCT ATTTAATTGA CTTTGAACAA TTAA

SEQ ID NO:1432: (Length of Sequence = 208 Nucleotides)

GTGAGTNAAC ATGGATGGAA ACAAATTATT AGGTTGTCNA AAGTGAAAA CACCAAAAT AAGATTTAAA AAGAATGTCA
GGTATCCATA GAAAAATATT AATAGGTCTA ATACATATGT AAAANTTGGC GTCCAGGGG GNAGAGACTG NAAAGTTATA
TTTTNNATGG CTGAAATCCC CCAANTTTA ACATAAGCA CAACATT

SEQ ID NO:1433: (Length of Sequence = 274 Nucleotides)

GGAAGGTTTT TAATGCATGA AGTATACTTG TGATCCTGGA GGTGGAAAA GATTCACTAA AGATAAAGTT TGGCAAAAAT
GATTCTNTCC CTAGGATTTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT

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CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCCTCT CAGCCCTTGC AACTGTTTCC NATGACTTTG GACTTGGCCA
TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAA

SEQ ID NO:1434: (Length of Sequence = 249 Nucleotides)

GCTCCATAGG TCTAAGTTTG ANCTTTTCTA GAAAAGGATT TGCAGGACGA TCTGACGAAT CTGGGGCTTC CAAATTAGTT
CCACAGTTC TAGTATTTTT TTTTTTTTTT TTTTGACAGA AGCAAATAAG TAAGTTTAC TTTGTGATTA AAACAAAGT
GAAATGCATT TAGTCCCAGG AAATGNCAAT CCTTCTGCA TCTNACTTTT TTTTGCTGTG ACCTCGAGNT TCTCTGTCC
TCTTCAGTT

SEQ ID NO:1435: (Length of Sequence = 201 Nucleotides)

GAATGGGGCC AATGGCACTC ACTGINTCTT CAGGCCCCCA CGGACGGCAT GCCTGGGGAA GCCTAGTCTA CTTACCATCA
GCACGTTGAT CINTCACACA GCATGGAGCC ATAGTTTACA AAGGACCACG GCAGGTCAAG GACAGGCCAC TAAAACITTT
GGTGCTGGGC ACATNACCCA CCTCACCAN CATCAAAGAC A

SEQ ID NO:1436: (Length of Sequence = 312 Nucleotides)

GGGAAAGGTA TATTAACTT CTGCATCAAA GATGTAACAG TCATGGGGTC TTGGTGGCCA TCTGGTCTGA GTTAGGTACA
GGACAAGAAA GAGTCAATTA ATCTATAATA AAGATCAATG ATTGAAAGAA GGGAGATCTG GTCTCTGTCT CTCCTAGTCA
TTTACAGAAC AAGAGCAATG AGGAAGACCG TTATGCTATA ATCTAAGNAA CAGAATTGGA AATATGCTAC TGACTCAGTC
TCCAGGGGCT TAACTTCCCC CTGGGCATAA TAAATTTAAG GAGTCTAAA ATTTTATTTT CCCTTACATT GG

SEQ ID NO:1437: (Length of Sequence = 294 Nucleotides)

ATTCCAATGG TAATACTAAC GAATTGTGCT ATCTAAATAT TGGATAGTAA AAACGTCAAC ATTTAGAAAA TGTATATCAC
ACAGGGAACC AATATTTTNC AAATTATCCA CATCTAATAT TAGGCAACCA CGCGCAANAA AAGACACGTT CAAAGTACAG
GAGAAATGGA TGGATTTTAA TGTGAGATAG TACAAGANGT TTATGATAT AGTTTCAAGA TTCCATATTG TAATAAACCT
TTAANGAAAC TTTCACTTCT TGAGTTTTGG GTATAGGAAT CCAAAAAAAA AAAA

SEQ ID NO:1438: (Length of Sequence = 311 Nucleotides)

GGCCCTTTGA CTTTGTAAT GAGCACAATG AAATGCCGCC TACTGATGCT TCTNATGATC AGAACTCTTT TTTAATAAAA
TAAATAACAT AAATCGTTGA ACATAATGTT CCNGTTGAAT GCAAANCAAA AAAAATATGG NAAACATTTT GNTAAAAITT
TTTCCNGNTA AAACCATGAA CANTGGCTAT GATGAAGGTT ATTACATATG GAAAAAAAC TCACACAAGC ATATTTGNAT
TTGGCTTGAA GGAACCCAT CATTAAATGC AANGCTAGGG ATTCITTTNG AAGCAGTTGA TCCTCAGGTT T

SEQ ID NO:1439: (Length of Sequence = 265 Nucleotides)

CGTGACACAG TTGAAGGAGT CGCTTAAAGA AGTCCAGCTG GAGAGAGATC AATATGCTGA ACAAATAAAA GGAGAGAGGG
CCCATGGCA GCAGAGGATG AGGAAAATNT CGCAGGAGGT TTGCACATG AAGGAGGAGA AGAAGCATGA TACGCATCGG
GTAGAGGAGC TNGAGAGGAG CTINTCCAGA CTCAAAAACC AGATGGCTNA GCCACTGCCC CGGATGCCC CAGCAGINTC
CTCTGAGGTG GAGCTNCAAG ACCTT

SEQ ID NO:1440: (Length of Sequence = 241 Nucleotides)

GTTTTACTCT TGTGAAGATA GCACTTTAAT CCTAAATGAG CATGTAACGT GTGACAGATC CTATATCAGT TTTAATAATT
GAAGCAGATA GTAATACTA GATTATTGAC ATTTTTGNGT CATGTGTCA GCTATGCTT CAAACTTGCT CAAATTATAC

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TTGGENATTTT ATAGTGTITT ATTTATTATA TACTCTNCTT GTAATAANNT GGTAATCTAG TTTCCAGAAT CATGCAAATA
G

SEQ ID NO:1441: (Length of Sequence = 247 Nucleotides)

GACCCCGATA TTCCGGCATC ACATAGATAT CCTCCAGATA AANGGTGGGT CCCTTCCATG TACTGTAGAT GAAATAGTAT
ATCCCATAGC CCACCACGCA GGGCCCCAGT AGCTTCCCGG GCGCTGGAAG AATCTCTGCT ACCAAACAGT GATAGAAAGG
ATTGTTTCCA AAGCCATCTG CTCTCAGGGC TTCTTCACTG ATAGNGTTT TTTTCAAGNA ATAATCCATG CTAAGAATGG
GGTATTT

SEQ ID NO:1442: (Length of Sequence = 233 Nucleotides)

GATTACAGCC AAGTTCATGA ATACAAATAA AATAGCAATT TCCCTCATTC TCTCTTTTGT TTTCTGNTCA GAGAAATCAG
GAGATGGGAG CATTATGCTC AGAAACCGAA GAGCTCTTCC AAGAGCTCCA GCTTAGAGTC CAGGCTTCCA GAGCATGCAG
CCTCCTAACA CGTATGTGGT CACATGTGCA AAGACCTNTA TTACAAATA TTCAGAGCAG NATTTCTNTT AGG

SEQ ID NO:1443: (Length of Sequence = 288 Nucleotides)

AATAACAAT GTGCAGGTTT TTATAACTGA TCGGAAGAAG GTTGACCCNC AGTTATCACC TTTAAAAAAT GGCTTAGITT
AGGCTTTCTC CTTTTGTCCT TTTCCAGAAG AAACCTGGAG TCTGTCAAAT TTCACAAAAT ACCCTGTTGA GATTTTCCTT
GGCTTTGATA AGGGTGAATT CACAGATTAA TTCGGAAGAAG AATTTACGGC TTTCTAATCA AATTGTTCTT TCCAGGGGNT
TTTGIGNITA TTTAGNCCT TCTAAAGGTT AACCTAACT TTGATTAT

SEQ ID NO:1444: (Length of Sequence = 208 Nucleotides)

GGAAGTGAAT CACAGGGCCA AAGCCCCCTT TNCCTCAGT GAAGCAATC AGTAAGATGG CGGTGCAGTG AAGCCTATTC
CCACACACCT CGGCACTGAT GGAGCAGTCT CCAAAGGAAG GCTGAAAGGA CAGCAGGTGG TTGCCTTNGG GTCCTTCCTT
CCCATANCIT TAGAGTGCCA TTTTTCAGCA ATGGGTAATA GCATCAAC

SEQ ID NO:1445: (Length of Sequence = 239 Nucleotides)

CCCCGGTCTC TNGGACACCA TTTTCTGCCG CTGGACGCAA GGGTTTGTGT TTAGAGAATC AGAGGGATCT GCATTAGAAC
AGTTTGAAGG TGGCCCCGTG NCTGTTATG CACCTGNTCA GGCATTTCTT TTGAAGAAGC TCCTGTTTTT TCCGGAGAAG
TCTTCTTNGC GGGATTTTTT AGAGGANGAG CAGAAGGNAC TCCTTTGTCA TACCTTGTGT GATATTTTAG AAAGTGCTT

SEQ ID NO:1446: (Length of Sequence = 243 Nucleotides)

TGCAGGGAAT TTNTGATGC AAAACCAGGA AACAATTTAT CTCCACTGGG AATACTTTGA AGAAGGGATT AGAGCGGGGC
TAGGGCAGGG AGGATCINTA AAAACAATA TTTGCCAAAC TAAAAACACA TAGGCACACA TGGGNATTAT TTTACTTTCA
ACAAGTTCTG AAAGTAGTAA CAAAACCAGG GAGAGTTAAA AGAATAATTT AACACTNATG NTTCAGGAAT GCTAAAGGAG
ACC

SEQ ID NO:1447: (Length of Sequence = 371 Nucleotides)

AGTTATAAAT GAACATCTGT TGCCTACTTA ATAGGTCAAT GAGTAGCTGT GACCCATTCT TAATTTGTAT GTAAGCATAT
TTTTTACATA TTGTATCTA CTTCATTTTC CCTTGAAGCT TGCCAAATTG GTACACTTCA GTTTGAAGTG ATGTCTCTTA
TATGCTGTAC CACCTTCTTA AAAATTGAAT TATCTTTCTT TCCACCTAGA TTGTTCTCAA AGCATTTGTT TTTGCTGGAC
TTTCCACTCT TGACCATAAG ATGGTAGCAT TCCCTAAGGA TATTGCAGCA CAGTCTAATT CCACTGGTTG TCATCTACAG
TTAAATCGCA AATAAAAAAT AATAATAAGC AGCAACTGAT TGCTCAAGTT G

SEQ ID NO:1448: (Length of Sequence = 366 Nucleotides)

AATTTTGTGT CCTGTAGGAA ATGCTTCCTT GGGTGTITGT ATTATAGCCC AATCCAAGTC ATCCCTGAGA ACATCCCCAG
 GTTGTAAAGGA TTAGTCAGAA GTCATGATGA CTGTCTATA TAAATATTG GCCTATTAAC TAAAATTAGT ACCTTNCAT
 TTCTCCNCTT TCTTGGGCGG GGCAGCGGGG GAGTGCAGGG GAGGGGAAAT AGGGAACGTN CAATTGTINTT TTAAGTAATG
 CTCATAAAAT TCTTAGNCAA AGATGATCTT GCCCTCCACC TTGGTGACCC ACCGCATACG GGGTACATCT ATCTGGCCTG
 TCTCTAGGCC TAGACAGAAG GAACAGGGAG GGTTATTGTT AACTTT

SEQ ID NO:1449: (Length of Sequence = 234 Nucleotides)

GTTGTGGGAG GGACCCGGTG GGAGGTAAGT GAATCATAGG AGCAGTTTCC CCCATGCAGC TGTCNGGATA GTNAGTTTCT
 CATGAGATCT GCTGGTTTAA TAAGCTTCTA GTGTTTCCCC TGCTGGCACT CATTCTCTCT CCTGCCACCC TGTGAAGAGG
 TGCCTTCTGC CATGATTGTA AGTTTCTGA GGCTTINCCA GCCATGCAAA ACTGTGAGTC AATTAAACCT CTTT

SEQ ID NO:1450: (Length of Sequence = 220 Nucleotides)

GCTTTTINCTC TCCCTGTTTT GTTTGTAAAC CTAAGGAAGC AGAGCCTCTG AGACCACACA CAGCAGCGTC GCCCGTCCCC
 AGAGGCACCC CGGCCAGGAC GGCAGGAGA GGAGACCCCC GTTCTGTCAT GCNCTGTGCG CCCGCCACGG TGNTCTCCGC
 AGGGTGAGGC AGGAGGGTGG GTGGAGGCGC CACTGNTCCT CAGCTGGAAG GGCGGGGCAT

SEQ ID NO:1451: (Length of Sequence = 403 Nucleotides)

CCGCTGTCA CCTACGGCCT GATTAACTT GCCTTCTGT CCTCCAAGAC CAGATGATGA TTATTCTCCA CGTCTAAGA
 GACCAAAGGC CAATGAGCTA CCGCAGCCAC CAGTCCCGGA ACCCGCAAT GCTGGGAAGC GGAAAGTGAG GGAGTTCAAC
 TTCGAGAAAT GGAATGCTCG CATCACTGAT CTACGTAAAC AAGTTGAAGA ATTGTTTGAA AGGAAATATG CTCAGCCAT
 AAAAGCCAAA GGTCCGGTGA CGATCCGTA CCCTCTTTTC TAGTCTCATG TTGAAGATCT TTATGTAGAA GGACTTCCTG
 AAGGAATTCC TTTTAGAAGG CCATCTACTT ACGGAATTCC TCGNCTGGAG AGGATATTAC TTGCAAAGGG AAAGGATTGC
 TTT

SEQ ID NO:1452: (Length of Sequence = 353 Nucleotides)

TGCCTAGAGA GGGGCGGGA TTTAGAGAGC TGTTCTTCTG CCTATCTGAT CGCTCCTCA GACACTGATC TATTAGTCTA
 GTGCTGCAAT TACTTGGATT GTAATGTTTC CTGCAATTT TTGCTTTTCA AATTCTTTTC ACCCTAACT GTAAATACGC
 CAGGAGTAGG TAAAACTTA CAGGTAAACA TTGCCAAGAN ATAAGGATTT TNATGTCTTC TGCTCAGTGG CATAACTCAA
 ATCAGATGAG ATAGATTCTT TTGCATCTGT CCATTGTATT TCTCTGAGGC TAATTTACAG CACTTTGTCA CGTTAGGNAT
 TTTTTFCCC CAGTGTCTCT ACTCTCAAC TGG

SEQ ID NO:1453: (Length of Sequence = 258 Nucleotides)

GTTGCCCTN CTGTCTTCT GTNACCCAGA GAAAGCTTCA CAAGCATGCC TGAATTNAG TTGCACCATT TTATTACAGC
 TGAAAGANIT GANTGTAAAG AAGGAAGTTT AATAGANCA ATAATNCAGC AGATTATTG ATGGGGAGGT ATCTATTGTA
 GTTGGCCAG TGAAGGCAGG TCATAGAGGA AAATTTAGGT AAGTCGGATT TNCCTTAAAA AGAGGCCCAA GAGTTAGTAC
 CTCAGGATTT TGTTTCT

SEQ ID NO:1454: (Length of Sequence = 328 Nucleotides)

GAGATGGAGT CTGTCTCTGT CGCCAGGCT GGGGTGCAGT GGCGCGATCT CTGCTCACTG CAAGCCCCGC CTCCAGGTT
 CAGCCATTC TCCTGCCTCA GCCTCCGAG TAGCTGGGAC TACAGGCGCC TGGCACCACG NCCAGCTAAT TTTTGTATT

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TTTGGTGGAG ACGGGGTTTC ACCGIGTTAG CCAGGATGGT CTOGATCTCC CGACCTCATG ACCTGCCCGC CTCGGNCTCC
CAAATTGCTG GGATTACAGG CGTNACAACC GCGCCCGGCC GGTAGCAATA GTTTTAATTA AGGTCTTAAA ATCATACAAA
AAGGAATT

SEQ ID NO:1455: (Length of Sequence = 342 Nucleotides)

AATTTAGGTA GATTAGCAAT CCCATGTAAC TTACCAGAAT CAGAATGAGA ATTCAGAAGT CACCTGANIT GGCCGGGCAT
GGTGGCTCAC ACCTGTAATC CCAGCACCTT GGGAGGCCAA GGCAGGCAGA TCATCTGAGG TCAGGAGTTC GAGACCAGCC
TGGCCAACAT AGTGAAATCC CGCCCCTACT AAAAATACAA AAAATTAGCC AGGCACCCTG TCCACAGCCC CCACACAGAC
TCGAGGGGCC CCCATCTCCT GTTCTGAACC CAACAGGGTG GTCCCACTNT GGGACCACAA ACCAGGTATG ACTGTTTNG
AAGCAGGCTC ACTACCAGN TA

SEQ ID NO:1456: (Length of Sequence = 296 Nucleotides)

ATCTTTGACC TATTAGGTGA ACAAATGAAC CTCACAGGAC ACACAGTATT TTTTAAAGGC AGACTCGCTC TCTTTTTTGC
CAGTNAGCAG TTCTAGCTAA CCAAGTTACA CACTGTGGGT ATTCTGCCT GCCTCTTGAA TACAAAGGCC TAGTTCAAGT
GTGCTTTTT TNATTTCAA TCAATTTTT CTCTTTCTT TTTTGAGATA AAACIATTAA AAGTACTACT ATATATATAA
AANCTCAAAT CAACTTTTCG GCCTCTCCT CGTGACCAG GGAGTATATT CTGACG

SEQ ID NO:1457: (Length of Sequence = 314 Nucleotides)

GAGGATTCAT AAGTAGAATT TATAAGAAC TCCAAAGAAT CAATAACAAA AAGACTGGCT ATGGCCTTCG NAGAGCAGCT
GCTGTCTGG AAATCAGAGG ACAGTGAAGG GAAGTCCGAA GATGAGCCTG ACACCATTCC GACATCCGTC CTCCTGCAGG
TGGTGGAGCT GCTAGGAAAC TTCTTNTGGA CCACGGACAT GGCAGCTGC NTGAAGGAGC TTGTTTTCCA TCTCTGGCA
GAGCTCCTAC GCACGGTGCA CACCCTGGAG CAGAGGCGGC ACCCCGCTGG CCTGTNCTCC TCANTCGCCC TCCA

SEQ ID NO:1458: (Length of Sequence = 254 Nucleotides)

GTTCCAGTCA CAGATGTTTC ATTATCACTA TTCAATATTA TTAAGCATCT AATAAGTATA AGGATGCATG AGTCAAGGGT
CCCTACCTTC AGGTCCGAAG CAGGAAAGAG ACCAGATCCT AGAACAATAG GACATGGTAC CCGCTGCCTA GACCGAATTT
AGAATCCGGC TGGGGTGAAG AGATTAATGA GCGAGTCATG CCATCAATGT GCTGTAACTG AGGTCTTAAA AACCACCCAG
CCGCGACACA AACT

SEQ ID NO:1459: (Length of Sequence = 343 Nucleotides)

AGAAAGGCTC AGGGATTAAG TAAAAAGGCT AGTACATCTG GGCTCCATTC CATTATTTAG TCATCCAAA GAAGTGAAGT
GGAGGATAGT GAGCATCTAG TATATGCCAG GCACTAGACT GGCTGCAGAG GATTCAGAGA TACAAAAAAC ACCTTGTGA
CCAATTTAAT TTGAATTTAC CAAGTTGAAT GGCAAAAATA TCTTAAAAAT TTAGATGCCT TGATAAATGT AGTGGTATAT
TATGATAGCC ATTCTATGCC TTGAGATACC GTGTATTCTA TATTGTATAG TTGAGGGATT GAGGCCAGTT GGGAGGAATA
AATTATAGCT TGTGCTTATC AGG

SEQ ID NO:1460: (Length of Sequence = 348 Nucleotides)

ATTGTCAACA GTGTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAAG GACAATTTAC AAAC TAAGAA
TAGTAACATA GCTTTTCAGCA TCCTGTGCCT GANCATCACA CATCTACAAG TCTTTCAAGT CTTAATGCAA CAGGAATGIN
TCTGGAGACC NGCAAGAACA TCAATAGAGA GCACTGATCC CAAGCAAAAG CCACTAACCT TTTAGATGAG AAGTCNCAC
AACGNATTGT TAGGGAGGAT TTGGGAGAAG CAGCCCCTTT GCTTAATACA TTNGGACCCC TTCCCTTAA GTTGAGGTTT
AACCCTTGAA TGCAATAACT TGGCATAA

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SEQ ID NO:1461: (Length of Sequence = 343 Nucleotides)

TGGGAAGATC AGGTCCTACT TGTTTTCTG TCCCCTCCAG CGCTAGATCA ACACAGTGTT AAATTAGTTG AATTTTCAGTG
 GAGGAGATAA GACAGAAATG AAATCTGTGA AGATTTCAGAC TTTCCCAAGT TAAAACCAAGT CTTGAGTTAC AGATCAAGAT
 GATGCCAGAA ATAACATCAC ACTGAAACAT CAGTCAAATG TAGTCATCAT GGCAAAGGCC AAATGTCCCT TTCTTTTTTT
 GCCTCCGCCT GCCTGGGAAT TTAGCATCCC CTAAAGCCAC TCATCTGGGA CAGGATTTTA GGGTGTGTAC ATGTTTTTCA
 ATCTCCACAG GACCCAGCTG TGT

SEQ ID NO:1462: (Length of Sequence = 335 Nucleotides)

GGCATGGAGC AGGCAATGAC TTGTTTCATAG TCGCTGCACT TATGAGCACC AGCTTGAAGT TAGGAACTCT TATAAATTTT
 TGTTTTCAAC CAAGTATTGA GTGTCTGCTA TGTGTTCAGAC ACTGCGCTAG GTGCTGAAAT CTCACTTCTA CTGAGGAAGA
 CAGGAACATA AATGGTGATG ATCATTGCAT TAGAAGTGAT GCCACGGGAA TAGTGTGGGG CCTCTCCAGG GGGATCTNAA
 GGTAGGGAGA CCACACTTCT CCAGTGGTGG AGAGGGCAGA CAGCGTGTAT NGGGTCTCTA AGGTCTNATT GCAAAGGTCA
 TGTTTTAGCT GTTCA

SEQ ID NO:1463: (Length of Sequence = 382 Nucleotides)

GGACCGCTTT CGGTTCTCTA GGATAACAC GAGCATGCCC ACCACGGTGA AGGCGGAGGT GACAAACACC AGCAGCAGTC
 CCGGGACCAA CACCGAGATG GACACCTGCT TGGTGTCTAG GTAGGAGTTG GAGTGCCTCC CGGTCTCCGC CAACCCAGTG
 CTGTTTTTAC TGTGCGAAGT TAACGTGGGC GAGATCCTAG CGTACAGCTG AGGGCAGATC TCGTCATTGG AGAGGAGCAT
 GAAATCCTTT CTAAAGAAGT TCACCGGCGT CTCACACTTN AGGTGCGCTCA TCAGCACTTC GGAACCCAAG CNTTCTGNCC
 ACTTGCTTGA AAGGCACAAT TGTCNAGGAG CACINCCAGG GGTTCGGTGG GAGGGTCTAT CT

SEQ ID NO:1464: (Length of Sequence = 187 Nucleotides)

AANGACCTCA TTTCAAAGAA GAGCCGTCTC CTGACAAGGG ACGTTTCCCA GAGAGGAGAC GTGTTAGTGC AACAAAGACC
 AGGCCCTGGN AGCCACGAAA GCCCTCCAGA TGCCTTGAGG ACGCCGTCTN TAGCCGNGTG GGCCACGNCC GGGTGGGGAC
 AGACAATGAC AAGAGGCAAG ACAGCCG

SEQ ID NO:1465: (Length of Sequence = 276 Nucleotides)

TTTACACAAT CAGTATAATA CTGATAGGAA AACTTGACTG AGTTCAGAAA ANGAAAACGA AGTAGAGATC TCCTTTGCAT
 CAGAACAAA TGTCATCTA TTAGCAGATA ATATTTCATCA GTATTTTTTG AAAATACAAT ACCACANGAA AGAAACAGTG
 GACATTTGGA GGGCTTTGAG GCCTGTGGTG GAAAAGGAAT TATCTNCCCG TAAAANCTAG ATAGAAGCAT TCTCAGANAC
 TTGTTTGINA TGTGTGCCCT CTACTGACAG AGTTGA

SEQ ID NO:1466: (Length of Sequence = 375 Nucleotides)

GGGGTTTAC CATGTNCCC AGGCTGGGCT CAAGTGATCC ACCCTCCTTG GCTTCTCAA GTGCTGGGAC TACAGGTGTG
 AGCCACTGTG CCTGGCTGGT TTTTNTTTT TNAATGAACA TGTTGCAAAT CACGCAGAGC ACCTTNATTT CTGCATTTC
 TGGGTATATA CAACATTGT CATCTCTGCC TACATTTAAA AGGCTCTGGT GTTATTTTAA TATGCTTTT CAATTTAGTA
 ATTAATTCTA ATTTTCTTT GAGCTGAGAT GTTATTCATT GTTCCTCTAG AGTTGCTTTT ATTTGTTCAT ATATGTTTCC
 CTTAGCATGT TTTTCGTATC TCTTAGTTAT TAGATACCTG AACATTTGAC ATTGG

SEQ ID NO:1467: (Length of Sequence = 319 Nucleotides)

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TGATAAAAGG AAAACGTTTT GATTTATAGT ACCAAGTGCT TAAACACAAG GATAGTGTTA GATTTTCGAG TGACTTTCCT
 TTTTGCATTT TTTGGCAGTA AAAGCCAAAC GTTGATTTG TCCTTTTCAG AGTTGTCCAG CCTTTTTTC CTTTGTCCAA
 AATGATTCTA AATAGAATCT AATAAACCAA TGTAGCATT TTTTTTTCTA AATGAAGCCC CAAAAAGAA AAGTGCCTTG
 CATCATTTAA AAAAAATAAT TAAATCCTCA TGGCCTCTAA ATTAGGTATG TAGGGCACTG AAAAGTTCTT AACATTTTT

SEQ ID NO:1468: (Length of Sequence = 352 Nucleotides)

TTTGGTTAAC ATTCCAAACA TGTATAACCA ATTAACATGG CCTAGGGTTT TCTTTTATT GGTATTCATC TCAGTAACTT
 GAATCCACAG ATATAAGCAG TATATAACCA GAAAGTTACA AGTAAACACA AATTATACAT GCAAATTTCT GTTCACAAAG
 GTCACATGTG CAGGTACATG ANTTAGAAGC GTGCATCTAG GATTATGGCC AAAGTGTCTT AAAAAATGCAG AAATGTAAAA
 TTACATCTTG AAAATATGAA GAGATGGTCT ACACACTTCA AAAATCAAAT GTTGCTTATA CCAGAGATGT ATGTCAATCA
 CGGNTTCAA GTGACAAGCA GTAAGGATCC TC

SEQ ID NO:1469: (Length of Sequence = 427 Nucleotides)

GAGATGGAGT CTTGCTCTGT NACCCAGGCT AGAGTGCAGT GCGAGATCT CGGCTTACTG CAACCTCCGC CTCCTGGGTT
 CAAGTGATTC CCTGCGCTCA GCCTCCCAAG TAGCTGGGAT TACAGGCGCC TENCACCGCA CCCAGCTAAT TTTTGTATTT
 TNAGTAGAGA CGGGGCTTTA TCATCTTGGC CAGGCTGGCC TCCAACCTCT GACCATGTGA TTCACCTGCC TCCACCTCCC
 AAAGTGTCTG AATTACAGGT GTGAGTCACC ACACCGGCC GGATTCTGTT AGTTTTCTTT AATGCATATT GAGTTTCTTT
 AGTTTTAACA CACTTAT CTTGGTGGGA CCCAACTAT TCACTATGTT TCTTGGGGGA NAGCTTNGAA TCTTGGGGTG
 GNAGCCAATT TGTAAATAGC CAGGGTG

SEQ ID NO:1470: (Length of Sequence = 426 Nucleotides)

AGGAGTTTGA GACCATCTG GGCAACANAG GAAAACCCCG TCTCTACAAA AAGAAAATTT GGTTTTATA TTTATTGTGA
 TTAAATTTTT TAGAAACATA GCTGGGCATG GTGGCACAG CCTGTAGTCC TAGCTACTCA GGGGGCTGAG GTGGGAGGAT
 TGCTTGAGCC CAGGAAGTTG AGGCTGCATT AAGTGTGAT CACACCACTG TNCTGCAGCC TGGGTGACAG AGTGAGACCC
 TGCGACTCCA GACAGGTGCA CACCACCACA CTCAGCTAAT TTTTGTAGA AATGAGGTCT CACTATGTTG CCCAGGTGG
 TCTTGAATC CGGGGCTCAA GTGATCCACC TGTCTCAGCC TCTCAAAGTG CTGGGATTAC AGGCATGAGT CACAGTGCCT
 GGGCCCAAT TCATAGTCTT AAACAT

SEQ ID NO:1471: (Length of Sequence = 372 Nucleotides)

AGAATATTAA AAAAGACCAG ACGCTTAAAG CAAGANTTGA AATACCTAGT TGTAAGATG TGGCACCTGT GGAGAAGACT
 ATTAAGTTGC TTCCAGTAG CCATGTTGCA AGACTACAAA TATTCAGTGT AGAAGGACAA AAGGCAATTC AGATCAAACA
 TCAGGATGAG GTTAATTGGA TAGCGGGTGA TATTATGCAT AANCTTATTT TTCAAATGTA TGATGAAGGA GAAAGAGAAA
 TCAATATAAC ATCAGCTTTA GCAGAAAAAA TTAAAGTTAA TTGGACTCCT NAGGTTAACA AAGAACACTT GCTACAGGGT
 CTGCTTCCTG ATGTGCAAGT ACCNACATCT GTAAAAGATA TNCCTATTT CC

SEQ ID NO:1472: (Length of Sequence = 332 Nucleotides)

GGTAGAGACA GGGTCTCACC CTGTTGCTCA GGCTGGTCTC AAATCCTGG GCTCAAGCNA TCCTTTCACC TTGGCCTTCC
 AAGTNTAG AACTGGCCAG GGGTGGTGGC TCATGCTGT AATCCAGCA CTTTNGGAGG CAGAGGCGGG CAGGGAGTTT
 AAGACCAGCC TGGCCAACAC GTTGAACCCA CTCTCCACCA AAANTACAAA ATTTAGCTGG ATGTGGTGGT GGGCGCCTCT
 AATCCAGCC ACTCAGGAGG CTGAGGCAGG AGANTCACTT GANCCCGGA GCGGAGGTT GCAATGAGCA GAGACGGCCT
 GGACGACAGA GT

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SEQ ID NO:1473: (Length of Sequence = 434 Nucleotides)

GCCTTTAATT TGGTTTTNCT ATGCCAGTAC AGAAACATCT GGACAACACT CTTGAGCCTG CAGAGGCTCA CGGCCACACC
 CACTTCTGCC GCAGGACTGT CTGTTGAGGA GCCGAACCGA TGAGGCACAG TAGCCAGGCC CTCCGAGGG CTCCAGAAGC
 TCTAGGTTTA CGGGGTCACC TTCTGTAGG TGACGTGAAG ATGCTGAGTC ATTGGCTGTN TCGTGGTTGC CATGGAGACC
 GTCTGCTCAA GTTTGCCCTC AGAATTCAGC CTGAACCTCC GGGTGATCTG CTCTACGTGG GGCTCCTTGG CGAAGGAGAT
 CCTGGCGATG GAGTGGGATG CGATGCACAG NTCCTGCCCG TTCAACTGCG CCTCCTNCAC TTTCCANCAC GGCTGTTTTT
 TTGGCGTGAC AAAAGGCCAC CTTTTGGTG TCGG

SEQ ID NO:1474: (Length of Sequence = 402 Nucleotides)

GACGTTNAGG TGGGAGGTTT GTTTGAGCAA CATAGTGAGA CCCGCTCTCT ACACAAAAC AAAAAAATA AAAAATTATC
 TGAGCATAGT GGAGCATGGC TATGTTCCAA GCTACGTGGG AGGCTGAGGT GGGAGGATTG CTGTCNTCCA GGAGTTCAAG
 GCTGCAGTAA GCAGTAATGG TGCTACTTCG CTTCAGCCTG GCGACAGAG CAAGACCCTG TCTCGAAAAA ATAAATAAAG
 TAAATAAAGT TGAGAATTTT GTATTTTGGT ACAGAAGGTC TATGCCCTTN AAATGCTCCA TTGAGACAG CTTAGGGCAG
 GACGCTCTGA AACTGGGAAG CCTGGGGCCC TGTACANTCT TGGCTGTCCC CTGTACANTC TCCTAACTCT AGAGGGCTGG
 TT

SEQ ID NO:1475: (Length of Sequence = 324 Nucleotides)

TTGCATACCT GTGCTGTGTC AGACCAGGCA GAGTCATCTC ATTCCACTGG TCTAATGGAT GGCAATTGAA TTTAATTAAAC
 AAAACTCCTT TGACTTAGTT TCATACTGTG CTGAATGTAA TGGAATCCTC TCTGCCCCC TTATCTCTCT CTCTTTCCT
 CTCTCTCAAC TAAAAATTGT CCTTAACATA CATCCACTTT AAGAATATTA AAGGCTATAC ATTATACTTA AAAGATACAA
 TACAGTCATC CCCCTTCCA TGACTTAAAT TGTATAACAT AAAATAATTA AAAAGNTACT TTGGATAGTG ATACACAGTA
 TAGG

SEQ ID NO:1476: (Length of Sequence = 244 Nucleotides)

GAAAAACCAG AAACTCAAAA TCAGAGTGCC TCTCCTCTC CAAAGGAACA CAGCTCCTCA CCAGCAACGG NACAAAGCTG
 GACAGAGAAT GACTTTGACA AATTGAGAGA GGAAGGCTTC AGAAGATCAA ACTACTCTGA GCTAAAGGAG GAAGTTCCGA
 CCNATGGCAA AGAAGTTAAA AACTTTGAAA AAAAATNGA CGGATNGATA ACTAGNATAA CCGATGCAGA GAAGTCCTTA
 AAGG

SEQ ID NO:1477: (Length of Sequence = 338 Nucleotides)

ACAACACATA CTTGAAACTG ATTATGACTG TTTTGAATG CATTTTGATT CCTTAGCTAT GCCTCTCAGG TGAAAGGACC
 AATGGCAAGA GGAAGCAGAG GATTCATGCA CTAGAAAATA CTGAGAGAGA TCAGAGTATT CTGTCTACTT CACTGAAGAT
 ATGGTCTATT GAGGGAAAAC TAATTAACAG TTGATCCAAG GAACAAAAGA ATGCTGTTAT GTGACATTTT GTTGGGAAAC
 TGACTGTAAT AATAATAAAN CAAATGTCCA GAGGAATGTG TCACATAATT NCAGTGTTTA TGGTTGATAA TTCAAAGGCA
 TAGATGAATT GGGATTCT

SEQ ID NO:1478: (Length of Sequence = 397 Nucleotides)

ACCCCTTCCC ATTCTGATAA TCTGGCCATG ACTAGCAGAA GCACAGCTAG GCCCAATGGG CAACCCAGG CCAGCAAAAT
 TTGCCAGTTC AAATTGGTCC TGCTGGGAGA ATCTGCAGTG GGAAAGTCAA GCCTGGTATT ACGTTTGTG AAAGGGCAGT
 TCCATGAGTA CCAGGAGAGC ACCATTGGAG CGGCCTTCCT CACCCAGTCC GTTTGINTAG ATGACACAAC AGTGAAGTTT
 GAGATCTGGG ACACAGCTGG GCAGGAGCGA TATCACAGCT TAGCCCCAT GGTACTACAG GGGTGCCCAA GCTNCAATCG

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TGGGTTTACG ACATTACTAA TCAGGGAAAC CTTTGTCCCG AGCAAAGACA TGGGGTGAAG GGA CTACAGC GACAGGC

SEQ ID NO:1479: (Length of Sequence = 389 Nucleotides)

GCTAGAGNGC CGGCTTGGCG GGTGAGTGG CCGAGCTAA GGGTGGGAG ACCCAAGGGC GGCGACTACG ACGGCGTTGA
TATCGTGGT AACGACGGCC TCAGCAGGCG GGAAGATGA AAGGCCGNT CGAGCTGGGA GATGTGACAC CACACAATAT
TAANCAGTTG AAAAGATTGA NTCAGGTCAT CTTCCAGTC AGCTACAATG ACAAGTTCTA CAAGGATGTN CTGGAGGTTG
GCGAGCTAGC AAACTTGCC TATTTCATG ATATTNCTGT AGGTGCAGTA TGCTGTAGGG TGGATCATTG ACAGAATCAG
AAGAGACTTT ACATCATGGA CACTAGGGAT GTNTGGGCAC CTTACCGAAG CTAGGAATAG GGA CTAAAT

SEQ ID NO:1480: (Length of Sequence = 384 Nucleotides)

CTGAGAGCCA GGAGCTCTTG CGGAGAAGCC ACTGTCTGCA CGCCACCTGC TTCGATGACC CTGCTCTGCC ATCCCTGTGC
TCCAAGGGCC GGGCCCTGCC GTTGCTGTG CCAGACGGGT CTCAGGGAGA TGCCGGCCAG CAGGTATGCA TGGCGAGGCC
TGGGCATCAA GGCCCGGATT CTATGGCTGC CAGTTTCATT CTCTGTTGT TTGTCCCCCT AGCAAGACTT ATGAGGTTCC
TTGAGGACAA GACTCCCTCC TGCCACCTGG TCTGTTTCTT GAACATTAC TGCCTAGCA CGGCCCCGGG ACGCAGNCCT
TGGGAATCAG GCCGTGGCC ATGGTAGAGC GGCTNGCACT GCTCGGCACC GTGACGGACG TTG

SEQ ID NO:1481: (Length of Sequence = 257 Nucleotides)

ATGTCTAGAG CTATTCTGTT TTCCAAGCC ATTTGGCTAG TAGGCCCTAA TTGGTCAGTG GGTTCGACC CCCCAATCCC
TACCTCAGCA GCAGGAAAGG GAAGTGCTGG TCTCCACTG TNCCCACTAA GGCCCCGTTG TATCTGGCA GAAGCCTCTG
CATGTATCTN CGCTCTGAGG ATGGGGGTTT NAAAACAAA TAAGACCCTA CGTCTACTA CCTTGAGCTT GGCTCTAAAA
CCACGGGAAA GGAAGAG

SEQ ID NO:1482: (Length of Sequence = 345 Nucleotides)

AATTGAGCTC AGACTAAAG AATTCTTTT TGAATAATA GTGATTAAGT TATGATATC CTGTGGCCT AAGAACAATG
CCTATGATT AGTTGTGTTA TGTATATTT TACTTATAAC CAAACAATCG ATTGGGTACA AGTAGCCTTA GGGCAACTACT
TCCTTAAAAA CATGTTTCTG ATAACTAAA GCTTTAGCAT TAACCAGAAG TCATAATTA ATAGTATTTG AAAAATACCT
CATTTATTTT AAATCCTGTG TTGGGGTAGA GGATTACAGT TGTCAATTTA AATACATGAA TCTCTGTCA AAAGNGGTAC
TTTGACAGTT TCATGGGAGG TCAGG

SEQ ID NO:1483: (Length of Sequence = 344 Nucleotides)

CTGATGTACT GTTTAATAT GCTGAGTACT GTTGATTCAA CAACAAACCT TAATGGGTGA TGAGCTTTTG CATACCAATA
TGAATTTNTC AGCACTTCTG AAAACTGGCC ATCAATTTNC AAATTCACAA TTGCTGGAT GTCAGGGAAC AATAGGAAGA
AGAATGAGCG TCAATTTTCA TGTCTTCTT TGCTTCTCA CTGGCCTTC ATAGAAGTAG TCAGAAAAA ACAAGCACC
ATCAACCACA CTTCAAAAC AATTCAATGTT GGCCTAAGCT TTGCTCAACA TTCATATGAC AGAAGGTAGN ATAATGAAAA
GGGACTGCTG GGCATCACTT TCCC

SEQ ID NO:1484: (Length of Sequence = 380 Nucleotides)

TTCTTAAAG CAGTCTTCC TACAACCTGT ATGCAGTAAG TCACTTAAGC ACTTAAGTGT CATATGGGTA CTTACATGGA
ATTAGAGCAC TTCTGAATG GAATTAGAAA AAGGCAAAT GTGCATACTA CTGATGCATT CATTTCCTAC AGAGATATGA
TACCAAGGGC CAATAAGTGA ATAGAAAAAG GGAGGAGGAT TTATTAATGG AATGAGTTCT AACCTGTCT CTTACCAGCC
ATATGACTTT GGGNTAAATA ATCAAACGCC CAATGAGCTC AACTGTCTAT TATTAGGGGA ATTTAAATGA GAGAATGCAC
ATTAATTATG CATTGCAGAG TACATGGGAA AATAGTAAAA GCTTAATATT TAATACGGTC

SEQ ID NO:1485: (Length of Sequence = 334 Nucleotides)

GAAGGAGCGG GGAACCAAGT TCTCACTCTC CTCCCACCTG CTATTGTCAG AAGAGCGAGA TTTCAGGGCA GCAGAGAGCA
TCAGGAGATC AAAAGAAGAC ACTGCTGGGT GGTCCTTAG CAAGTTTAG CTCTTTNCC TGCTGGGAGA GTATTCCCTG
GGCACAGTGC CAAGTGCTC TAAGAACTA GTCATGCCG ANCTTAAGGG CTCGCGGATT CTGGGTGGTG GATTTCCCTA
GGCTTGCTG AGCCTGCCAG TGCTCTCCTC TGTCGCTCTG ATTTCCATTG ACGCTGAGCA GTCTGCACTN CCTTGGACAG
ACCCACTGGC ATTT

SEQ ID NO:1486: (Length of Sequence = 164 Nucleotides)

CTGAAACGGA AAGATGGCGC TGCTGINCTT CTAAGCCTAG GCTTCTTGCA CTAAAGCACC AAGGGCATCG CACACAGGCT
TGGCAGAGGG GCCATGGCCA GATCACCAC CTTCAGACAA GTATGTGGA GGTCTCGAAT CCCTTGGCAC CCCCAGCAT
GCAG

SEQ ID NO:1487: (Length of Sequence = 298 Nucleotides)

TTGAACCCAG GGGGCAGAGA TTGCAGTGAG COGAGATCGT NCTGCTGTAC TCCAGCCTGG GCAACAGAGC GAGACTCCAT
TTCAAAAACG AGAACCCAGA GGGCTCACTT GCCCCTTCCA CCACACAGTG AGAAGGCACC ATCTATGAGC CAGGAAGCGG
GCCCTCACCT AACAGGATCT NCTGGGCCTT GACCCAGGNC TTTACAACTT CTAGANCCAT GAAAAATTTT TGTGTTCCT
AGCAGNCCAA ACAGAATTAG AACCATTAAT TTCTATTTCT CTTTAGCTT AACACTGG

SEQ ID NO:1488: (Length of Sequence = 343 Nucleotides)

TTGCTAGTTC AGGNTCAATG TCATGGCTGT AACTAATATA GTACATTGGG CAGTTGCAAC GCGAAATGAT CCGCTGGACT
TGCTGGGCTT GCTGTGCCTC ANCTGGCTGG TTCCAATCTG TGGTGTGGT AACCATGCG CCCACTGCCT GCCACTCTC
CATCAGCTCC TGCACAGAGT CCAGACTACG CTGCCGGTGC TGCTCTTTT GCCAGGTTG AAGTGCAGTG GCGCAATCTC
AGCTCACTGC AACCTCCGCC TNCGGGTTT AAGCAATNT CCCCACCTCA GCCTTNCAG TAGCTGGGAT GACAGGGCGC
CGCCACAACG GCCAACTAAT TTT

SEQ ID NO:1489: (Length of Sequence = 412 Nucleotides)

ATTACCTTTT TATAACCCAA GANTGCCATT ATTACACCG GAACCTCAC CAAATAAGTA GGAAACTAC ACTGAGAACA
ATTGGGCCCA GCTGTCTCTG GCCCATTTCC CTTTCTACG CCTCTGTGC ATTCCAGCAA TCTAACTCGA TGAATGATCT
TCCAGTTGGA AAGATGGGGA CTTACAATG TGCAGACCA AAGATCTGTC TTCCAAAGGC CAATCACCAC TGTATCCTTC
GTTCCCTTAA ATGTCGTTGT TTATTGAAT ATATTAAGGA ATAATATCAA GGGTAATTAT CTATGTATAA AATGTATGNT
TAATTTTTTA GGGGACCATC ATACTGTTT TCCACAGTGG CTGTACATT TACAATTCCC ACCAACAATG CACAGGGTTC
CATGGTTCCT AT

SEQ ID NO:1490: (Length of Sequence = 356 Nucleotides)

ATACCTTCTT TCATTTAAGC CACCCAGTCT ATGGTACTTC GTATGGCAG CCTTAGCAAA CTAATACGGA TTCTCATCA
GGTTCAGATT TTNCTAAATA AAATGTGTTT GTGAGGGTGG TACAAGCAAC AGTGATATAT TTCTTTAAGT ATTTTCCCCC
AGCCAAATTC CAACAAGACA ATAATGTCTA ATGCACTGTC TGGTGAATCG GAAAATCTCC TGAATGAAAT AAGAGCCTCT
AATACCCAAA AGGGAATGAA GTGAGTCATC ACCACAGCCT GTGAATGAAA ATAAGTCTC TGAGGAAAAC ACATGTAAAA
AATGACACCA TGTGGATTAA ATGGGGGNAC ACAAGT

SEQ ID NO:1491: (Length of Sequence = 335 Nucleotides)

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TTCCTACCA AAACAGTTA CAACAGTTCC AGCCAAATA CACAGGCTAC CCCATATGCC ACGACACAGA TCTTGCAATC
 CAACAGCATA CATGANTTGG CTGTCGGTCT GCCTGATCCN CAATGGAAAA GCTCAATTCA GCAAAAAACA GATCTGNTGG
 GATTGGTTA TTCTCTACCT GATCAGAACA AAGGTAACAN TGCCTTACTT TACATTCTG ACTACCGNTT GGCTGAGGGA
 TTGNTAATA GAATGCCACA NAACAGTCT NAGGATTTTA GCANCCACCA GCTCTNACAA CAGCTCAGGA AGGAGTTGGC
 AGTNTCTCAG GTGGG

SEQ ID NO:1492: (Length of Sequence = 321 Nucleotides)

GACTTCATAA AACATCCTTT ACTATATTTT NAAAGAAAGC AGAAGTAACA GCAATATATG TAAAAGTAAT GNTTTAATGN
 CTATAAGCAA GNCAAAGCAA TAGAATTGTG CTTCTTTTGC AGACTGGGN CAATGAAATG TTTAGCTACA ATTTNCCCAT
 ACAAACATGA AACAATATTC ATATAGNNTA ANCACCTCA CAAATAACTG ATGGGTGATG ANCACACACC AAGTTCGACC
 AAAGCAAAAA NTAACTGAA AATGTGTGGG TGGGGTTATT CATATTTTAA ATTCAACATG CTGCTCTAT TAAAAATAC
 C

SEQ ID NO:1493: (Length of Sequence = 315 Nucleotides)

GACGGAGCGA GGGGACAGAG CCCAGGGATG GAGGCGGGAT GCGGGGGACA GAGCCAGGG ATGGAGGCGG GATGCGGGGG
 AGCAGCTGGT AATGTGCAGA GACTGGGAGA GGGCGGTGTC CAGGTGGAGA GTATTTCAAG GAAGAGAAGG ATTAACAGCG
 TCCACTGCCG CAGATGGGCC AANCNGAGAT GGGACTGGAA ACCAACCCT GCAATTTAGCA TCCTGGGGNC TGCTNATAAC
 CTTGGTTTGA TGGCTCCTCA AGAAGAGCCA NAACCTTNA AAGTTAGTTC AAGAGAGAAG GGGNGAAGAG ACACT

SEQ ID NO:1494: (Length of Sequence = 405 Nucleotides)

AAAAGTTGAC AAAACATAAA GTATCTCTAG ACAGCAAGGA AATAATTTCA CGAGATTGCT AAATTGATGT CAACACCTGC
 AGTCTAAAAT TTATACAGTT CAATATGTGT CATTTGATCA CTGGCATGTC AAATATAGAA CAGCTATGAC TTTGCTGGCC
 AGTAAATTAT CTAGCAGTGA AAATCACTTT TTAGGAGAGT CGCAATCAA CATTTGTTAA CGTGGGAGCC TATAAAGATG
 CAAATTCCTG AACAACAGTG TCTAAGAAAA GTACATTGGG TCACTCTGAA CAGGTGGTAT GAACATTTGA TTTAACTGCA
 AGATCINCNG CTNFTTACGG GCTTTGTAC CATCGNATGA ATCTTACATC CGCTGATGAC TNAGAGCAAG CAGGGGCGAG
 CTGCC

SEQ ID NO:1495: (Length of Sequence = 364 Nucleotides)

CGTCTAATGA AGAGCTTCGA AACTTGCTTT TGCTGGCCA TGTGGGATTT GACAGCTCC CTGACCAGCT GGTCAACAAG
 TCTACTTCTC AAGGATTCIG TTTCAACATC CTTTGTGTG GTGAGACAGG CATTGGCAAA TCCACGTTAA TGGACACTTT
 GTTCAACACC AAATTTGAAA GTGACCCAGC TACTCACAAT GAACCAGGTG TTCGGTTAAA AGCCAGAAGT TATGAGCTTC
 AGGAAAGCAA TGTACGGCTG AAGTTAACCA TTGTTGACAC CGTGGGATTT GGAGACCAGN TAAATAAAGA TGACAGCTAT
 AAGCCGNTAG TAGNTATAT TGATGCCAG TCGAGGNTCT ACCT

SEQ ID NO:1496: (Length of Sequence = 370 Nucleotides)

GTCTCTTGA GCAAGGACCC AGTTATTCAT CTTAATTCTC AGGGGAATCT CTGTAGAGAT GAAAAGCAGG AGAACCAAGG
 CAGCCTGGTC TCCCTGGGTG ATGAAAAACA GACTAAGAGC AGGGACTTGC CTCCAGCTGA GGAGCTTCCA GAAAAGGAGC
 ATGGGAAGAT ATCGTGCCAC CTGAGAGAAG ACATTGCCCA GATTCTTACA TGTGCAGAAG CTGGTGAACA GGAGGGCAGG
 CTACAAAGAA AGCAGAAAAA TNCCACAGGA GGGAGGCGGC ACATCTNCCA TGAATNTGGA AAGAGTTTIN CTCAAAGCTC
 AGGCCTTAGT AAACACAGGA GNATNCACAC TGGTGAGAAA CCTACGGAT

SEQ ID NO:1497: (Length of Sequence = 376 Nucleotides)

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CACACACATA CAAAATCTGT CCATTGCGG GAGNAATNTG TATGTATGTN AGTTGGAGGG TATTAAAAAT CAGTTTTATT
 CCAAAGATTT AAAACTAGAC ATGACTTAAA AACAAATTTCT GGAGCACTGC TTGCTGACAA TCTGTAGTT CTCTGCTGCA
 TTTGAGTGCA TTTTGTGGCC AGTCCATCAG GCGGTACCAT GGGATTATAT TTGAATGTGT GGTGCATCCT TCCTGGATGA
 AGGATGTGTG AGGGACCTTG AACCTCAGCT GTATTAACT GTAGCGCCTC CAGTCAGTGC ACTAGATGAA ACTTTTAGAC
 ANCCTGAATT CTGTTGGGTC CNITCTTTTT CCTTTATGTA GGCAGNCTNC AGCATG

SEQ ID NO:1498: (Length of Sequence = 281 Nucleotides)

TTTATAGGAC TTCTAATCTA ATTTNCCTAT AGTGTGACTA AAAGGGAGGC AAATTATTGG AACGGATTAT TCAAATGGNT
 CCTTAAATAT TGCTATGTAT AATAAGCCAG TTATTATATC AGGACCATGT TCTCTGTAGG CCACTGTTTT NCTCTCTCAT
 TCTCCAGTGG CGGCGGCGGG GAAGGCGGAG GCAGAGGCAG CAGCAGCCGC GCTGGCTGCA AATGAATGAN CCCCAGCTT
 GGGGGGAGGA CTCCAGGTGA GCCTCTGCCC TCGGGAGGCC C

SEQ ID NO:1499: (Length of Sequence = 395 Nucleotides)

TTTTATCACA CCTGTTTTT CAAGGGTCCT GTTACGTACC ATTCAACATT CTGCTTAGCA ATGGCTTGTG AGATGGCATT
 TATTCCTTCA GCATGTATTT TNATGTTTCA CTTCCTCTCA CCTAAATTC TCCCCACCC CAATAACAAT TAGTTGTCT
 ATTTGCATGT AGCCAGAGCA AAAAATGATT TCTTCCCTT AAGTTACTAT TATTATAAAA GGGACGATAA ACACATGAGT
 CATTATACCA CAAGTATAGT GTGGAAAGGA CTCTAAACAT AGGCTCACTG AAGAAGGTGG CATTTGGGCC AGGGCTCAAA
 ATAAGGCAGA TTCAGATTG AACTGAATAG ATGGAGGAGT CATTTCAAAC AGAAGGAATG NCATAACATG TGGAG

SEQ ID NO:1500: (Length of Sequence = 272 Nucleotides)

CTGAGTAAGN GTTCCCAGTC GGTCCCAGTG GTCACAAAT TTNTGGCACC GATCAATGAC ATTCACAGCG TCGTGATAGT
 CCAGTTCATT GAGCTCCTGC GCGATGGCTG CGATCTGCTC CACGCGGTCC TGGTGCCTG CCAGGTGCGT CTOGAACGNC
 TCGTGCTTCC GCAGCAGAGC CGNACCTCT NTNAGCGAGC CCGACTCGTA ATCTTNTGTC AGCAAGATCT GCTCTTTGCC
 ATAAGCCCAA GTCTCGTGG TTGAGGCCTT CT

SEQ ID NO:1501: (Length of Sequence = 394 Nucleotides)

TTTTTTTTCC TGGACCTGTC ACAAGCTTTA TTGTCCCGAG CACAGACTCG CCACACTTCA ACAATTCCAC TGTGGGGAGG
 GGAGGGGTGA ATGAAGGACC TGGGGAGGGG ACATGGCTGA GCCACANCCG GGCGGCCACA CGGGGCGGGC TGAGAGGCC
 ACGGAGGCAG AAGCTCCCAA GGAAACCGCT TCTTGGACAC CCGTCACCAG GAGCCACCT CCGGGGGCTC AGNTCCTCCC
 GGCACCTCC TAGATGGACC TCTGGCTGTT AGTAGACTAA TCGGTGCCCC TACGATGGG GCAGAGCTGC CTGATTTTGT
 CTAGAAAGAG CTGTATTGTA NCCTNGGTTA GGNCACTAAA GCATCGTTCT AGACGGCTGT TAATAGAACT NCAT

SEQ ID NO:1502: (Length of Sequence = 373 Nucleotides)

GAAACAAGGC ATAATGTTGT CACAGAATCA GAGATCCAGT CTCACITTTT CACAAATCTC CAAATCTCCA GTCTTATCTT
 GTGTGCTCTA ATGGTGTGGT TCAATCCCTT TCCAATCTT GTTTTCAAAG CATGGGCCT GAGTGTCTC CACTCCTCCT
 AAGAAAGGAG CTTGGGTGGA AGGGACCATG CTGACCTCCT CCATCAGAGG GCTCTTCCAG TAGTATTCTC GGATGCAACC
 TCCATTTCTC AGTTACCATT ATTTCCTGTA TCAGCTTTGT CTTTCTGGN GGGATGCACA GTGATCGGG CCACCACTGT
 TGTGTCTGTG TGCTTCTGCT CTTCCTATG GTTTCAGNT ATTTTCTGGG GTT

SEQ ID NO:1503: (Length of Sequence = 266 Nucleotides)

GNCAACAGGC CAGTNTTTAA AGAGGGTCAA GTGGAGGTGC ATATTCCAGA GAATGCTCCC GTAGGTACCT CTGTAATTCA
 GCTCCATGCC ACTGATGCAG ATATAGGCAG TAATGCTGAA ATCCGGTACA TTTTGGTGC CCAGGTGCGC CCTGCAACCA

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AAAGACTCTT TGCTTTAAAT AATACTACTG GGCTGATTAC ANITCAGAGG TCCTNNGATA GAGAGGAGAC AGCCATTAC
AAAGTGNCAG TGCTGGCTAG TGACGG

SEQ ID NO:1504: (Length of Sequence = 311 Nucleotides)

ACTGGATGGA TGTTTGATCT GTGTGGTCA TGAAGTTGTT TTTTTTTTTT TAAAAAGAA AACCATGATC AACAAGCTTT
GCCACGAATT TAAGAGTTTT ATCAAGATAT ATCGAATACA GCATGGGATT GGGAAAGTTA ACTAAAGGTA TTTGAGCTTG
CACTGGATCT TGAAAGGTAG AAAAAGGGAG CAGGAGGAAA CTCATCCAGG TAAGAAAAAT AGACTGTNCA AGATGGGCAT
GAGAAACAGT GAGGTCCCNV GCTGGAGGTG GGTGCTAGTC ATGTTGAGCA CTNCTGGCAG GAGAGGTTTT T

SEQ ID NO:1505: (Length of Sequence = 363 Nucleotides)

CCACTCATGG CAGAAGGGAA GGGGAGCTAG TGTGTGCAGA AATTGTATGG TGAGAGAGAA GAAACAAGAG AGAGGGAAGG
GAGATAGCAG GCTCTTTTCA ACAACCAGCT CTCATGGGAA ATCATAGAGT GAGAACTCAT TCACTACCAT GAGAATGGCA
CTAGGCCATT AATGAGGGAT TCGCCCTAT GACCCAAATA CCTCCATTA AGCTCTACCT CCAACACTGG AGATCACACA
TCANCATAAA ATTTGGAGGG GTCGAATATC CAAACNTAG CACTTGGAA CCACCAGAAG CTGGAAGAGG CAAGGAAAGA
TTTINTCCTA GAGGCTTCAG AATAAGGTAT TGCAATTCTG AAA

SEQ ID NO:1506: (Length of Sequence = 177 Nucleotides)

CGGACAGAGC AGGGCAGAAA AATGAGGGAA GGATGACAGA AGCTCATCAG AAAGCCAGTA ATACATAAGA TTAGTTTTNT
CAGCAAAACC TNGTAACTT TGACGTTAAA AGACAAATAT TTTGATCTCT CATTCCCACT CTCAAAAGG TTTCTAGTTC
ATATTGTTTT GCTAAAA

SEQ ID NO:1507: (Length of Sequence = 345 Nucleotides)

CTTGCTTGAT TTTCCCTGT GTGTCAGAGA ATGTGCACAT TGAAAGAGAG GGAGCTCTCC ATCACCAGA GAGCCCAAAA
ATAGCCCAAC TGATCATAGC CGTTGTAAAA ATATTCTATG ATGTAAGGAA AGATCCTTTC CCAGTCTGAT GTCCTTGAC
TTGTGATTG CTAAATTGA GAAGCCATCA CITACACAAC CTGTTTTATA GACAAATCCT TCCAGTTTCA GAAGAAAAAA
TGTCATCTAT CTCACCTCC ATCTCTTTT CAACTTCGA TAGATGAGAA GAAAATGGTG AAATAAATTT TTTAGAATCA
GTTTTGCAAG ATTGGTTTC AAGGA

SEQ ID NO:1508: (Length of Sequence = 326 Nucleotides)

AGTTGGATTT CAGCTACTCA GAGTAATGG AAAAGGCCAC AGCCTGGTGG GCTTCACAGC TTTCAGAGAC CTGGTAGGGG
ATGGCTAACA GGTCTNCTG CCAGGAGACA AGTGGCAGAC CCAGGTGTGA AACTTTTACA GGTCCACCA AGCCTTCTT
ATGGAGCACA GAGCATAAGG ACAACTTCTG CAGAAATGGA ATGGGGTACT TGGAACCAA AATACATACA CCTCCTTCC
CACCTGCCTC CAGCTTAGTA GCCCATAGTC CTCCTTGTCC CTCACACTGA GCCAGGGCCT GNCITAGATG ATGAAATGCA
TGGCCT

SEQ ID NO:1509: (Length of Sequence = 329 Nucleotides)

AGTATGGGTC CCTTGGTACT ACTCAAGGT TACAATATTG CATTAAACAC ATTGAAAAAT ACACGAGAAC CTTGAGGGAT
CACATTTTAC TGCAATATGT GATTTCTGG TGAGACTCCT TGTGCAGAGA TGATTAGCTC ACAGAGCGTT GTAAGCACGT
ACTCGCAACA CTTGAGCATG CCGCAATGGC AACAGGAGGT ATCTTCACAA TTATGATGGT AGTACAGTAT GTACTGCAGT
TGTTTACACA GTTATGATTT AGTACTACAT CTTTACANTT GGTATTTC TTNCTATTTT GAATGGTATG TACTGTCTGT
GTGTACATA

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SEQ ID NO:1510: (Length of Sequence = 247 Nucleotides)

TAGGAAAGAG TAAGANCTTC TTINCAGGCT GGAGGTGCTC GTATGGTGGG ACAGGAAAGG GGAAAAGAGA AAGGGGCAAC
ATGGCAGACA TACCACGGTT CCTACAGAGA TTAGGGGCAG CCCTGGCCCG GGAAGTACAC AGGGCAGAGA GCTGACTCTC
AGGCCAGGAA GGAGTTTAGC TCTNACCCAT CCTCANGGAC CACGGCTCTC CCCCAGCCTC AGCTGACACA CACACAAAGG
AGCGTTT

SEQ ID NO:1511: (Length of Sequence = 369 Nucleotides)

CCACTTGCTC CTTTATTAAAC TGINCTTCCT GTAGTGTGTA TTTGGGATCC ACTGGGAATC ATAGAAAGGA ATCAGTGCTA
GGNTCTGTG GGATTGCACC CTGAGGGATG TGGCTTTGGC TTCTCTATCA ACCTTCTGT TCCCTTGTC TATAGGAGTT
AAGTCCCTTT NATGCCCCCT ACAGTGGATT ATAGCTATGG CCTGTGGCAG GTGTATTGTT TACAATAGCT GAAGAATTTT
AGGCCCATGC TTTATGGGGG AGGGTTTINC TAGCTAGTAG TCCCCTTCT TTCTAGATTG CAGCATAAGC GTGAACCNCC
AAGGAATGCC ATATTTTAGA ATCCTGTNAT AGGATGGTTA AGGCTTTT

SEQ ID NO:1512: (Length of Sequence = 236 Nucleotides)

ATGCATTAG AAAAGACAGC CAAATGACAG ACTGATAAAA TATTTTCATT ACAAATTGG TTGAGAACTA CGTGTGACG
TAAATGAAGT TTCTATTACA CATGTACTAA CAGAGACTTT TCATTACATA TTCTAGGATA TATTTAAAT ATATGTATAT
TTTGATATTA AGGGAATATA TTTGTGTGTC ATTTTACAAT GTGTAACTAC ATATATATTA NGGCCTTTCC AATAAA

SEQ ID NO:1513: (Length of Sequence = 408 Nucleotides)

CATTAAATATT CTCAGTGTG GAAATATTTT NATATTGCCA AGACCATAAT GTGAGNGTG CAGCTGCATA ANTCCCTGAG
AGAAGATTAG TGGGGCTAGC ACCTTACAAG GAAAGACAAG CTGTGTGGCT GGGCCCAAG ACAGTCAAAT GTCTGCCTGA
CAATCTCCAC ACAGAAGGGT TGCTCAGATC ACTTAGGACA CCCAGAAAGA GCTCACAAG GGCAACAAC CTAAGGCTGN
TATTCTCCAT CTAGCGGTAC TTACCTGGGA ACTGAGTGGC AGTGGACAGG AAGCAGGCC TGGGCTAGGG AGACCTCAG
GAGGAANGG GACCCAAGAA GTTAGAAGTC CATTCATTCA TATACTCAIT CATTGAGCA ACATGCGCTT GACACCTTCT
GTATGCT

SEQ ID NO:1514: (Length of Sequence = 359 Nucleotides)

TTNNCCAGGC TGGTCTCAA CTCCTGGGCT CAAGTATCC GTCCACCTTG GCTTCCCAA GTNCTAGGAT TACAGGCATG
AGCCACTGTN CCTGGCTAGA AAATNINTT TAAAAGTNA GGATGTAGAA TNCCTAGCT ATGTAGGCAA GGCAGGAGGA
GAGGGGCCCA GTTGGGAAGC ATAGCCACA AGAGTATGAG GGCTGANCC AGGATGGTGG CAACAGGGAT GGAGAGGAAG
GCGTGCCAGG GCATGGTGGC TCACACCTTA TAATCCTAGC ACTTTGAGAG GCTGAGGGAG GAGGATCATT TINAGCCAA
AAGTTAGAGA CCAGCCTGGG GNAACATAGT TAAGGACAC

SEQ ID NO:1515: (Length of Sequence = 343 Nucleotides)

GAGCCCCTTG ATGGCAAGAN CTGACCCTTC CATCCTGGAG AAGAGGAGAC CAATTNATA TTATGGAGGC AGAATATACA
GGACTGTGTG ACTAATTGCA CATGTGTGTC CATGGAGCTT GAAGGGGACA GAACCACAGG TGCAAAACTG GTGTAGGTAG
TGCTGGCCAT TGCTCAGAAC TTTGTGTGAG TTGAGCCCAG GCCTCTGGTT GCAGGACTCG TGAATGGAGC AGTTCTGAGA
ACCACCTTT TGCTAAGGGA GCTTNGGAGC CACATGGCTG CTCCCTTCAC ACTGGGTAAC AGTGTAGTAT CCTGTGAGAG
AATAAACGTA TTCATTTAAA AAG

SEQ ID NO:1516: (Length of Sequence = 380 Nucleotides)

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TTTTGCCTTA TTCTATCCGA TTTTTCCTT AAGCTTCTAC CTGGNATTTN CCTTTGGAAA AGTCTCTGAG GTTCCACCAA
 AATATGGAAC TTNATTTTGG ACACTTTGAC GAAAGAGATA AGACATCCAG GAACATGCGA GGCTCCCGGA TGAATGNTT
 GCCTAGCCCC ACTCACAGCG CCCACTGTAG CTTCTACCGA ACCAGAACCT TGCAGGCACT GAGGTAATGA GAAGAAAGCC
 AAGAAGGTAC GTTCTACCG CAATGGGGAC CGCTACTTCA AGGGGATTGT GTACGCTGTG TCCTCTGACC GTTTTCGCAG
 CTTNACGCC TIGCTGGCTG ANCTGACGNG ATCTCTNTCT GACAACATCA ACCTGCCTCA

SEQ ID NO:1517: (Length of Sequence = 411 Nucleotides)

TGAGCAAAC ACAGAGGACT GCACCTCTAG TGGCTCGTAA TGAGAAAGAA GATGGTCTCA AACCTGAGAA AGATAATGTG
 GAGTGGACCT CTGTTGTCTC AGTATTACA GTCCCTTCTA GGAAGTAGGT AGCATTTCTG AAAATAGAGT GAAGCAATTG
 ACTGATGGAT TTAATCTTTA AACTGCTTAG GTAACCATCA ATCTGTAATG AGCTTAATAC TCTTAACCTAG GTGCTATTTT
 NCATGTGTGC TACTTTGCCA GTGATAAAGG ATTACGAAAA ATTCTTTACC AGAGGAAAAA AAAAAATTGA ATGACCTTTC
 TTGGGAAGGT GGTCCCTTGT TTGTGATCAA ACTTTGACAA GAACTGGTAA TTAATTTCTT CTAAGGAATT NACCGTTCTC
 ATAGTGTGTT T

SEQ ID NO:1518: (Length of Sequence = 388 Nucleotides)

GGTGGGCAGC TTCTCTCTGC AGCTGCTCTC CCATCATCTG GCTGAATATG GGGCTTTTAT GGGCCTCAGG GGAGGAAGTG
 TGTGCAAAAT GGTCCGTGGG CAAACATGGG CGGGCCTGGA AAAGGCACCA CAAGTTCCCA CCCAGTCTAG TAGGATCAGC
 AGTCTGACAC CCAGGCTTCA GGCCCTCCCC GACTTGAAGG TGGTGTCTCA CCAAGGACTC ACCCACTCCT GCCCAGGAGC
 TTGINTGCCT CCGCTGCCA TTTATGGTGC CCAGGCTGTT TGINCCAAGG AGTGTCTGTG GGCCAGCCTT GAGCTGCCCT
 CAGCACCCCC TTGGCCTCTT TTCTGTNCTC ATTGGTGCCC AAAGTCCGCA GCAGGCTGAA GTGGCAGG

SEQ ID NO:1519: (Length of Sequence = 358 Nucleotides)

TTGGTTAAGA CCAAAGTCAG ATCACTCCCT CCTAGTCCA AACCTGCAGT GGCTCCCAAT TCINTCAGCA TACAAACCA
 GATCCTCAGG CTGCCATTIN TGGGCTGAAT CCGTCCCTG CTGTCTGATC CCACCAGACA TAATGGAGGC CTGAGGTTCC
 CTGAACACTC CTAGTTTAGC CTTAAGTTAA GTATTGTCAC ATGCTGGTTC CTATGCCTGA GATAATGTTT CACATTINAT
 CCCATTGCTT GCCAGAAATA GAAACCCCTC CACATAATTN CAAAACAGAG TTTACANCAC AGAGCTTTGG GTGACTGCAG
 GCCTCCAAGA ANGGNAGGCA GAAGGGGCAC TGAAGAGT

SEQ ID NO:1520: (Length of Sequence = 379 Nucleotides)

CCAGAGTTAA ATATGCCAG GCTGAAAGAA GGTGTATAAT GTATGGNCGT NCTTATACCA AATGATTCTT TTGGAATTTA
 AACAAATATG TTTAGTATTT TATTCCTAAT TTAGGAAGAA AAAGCAACTA AAGTTGINTT GACATTGTAC ACAGATGAGT
 AGCACGTAAC TTTTATTTAG TAAGCCCAT AGGATAGTAN GGNATAAAG TTGTTAGTGA GCAAAACAGG AGTATCCTGC
 CATTGCTTTT AATTCTNCTT GTGATAGTTT TGAGGGTACA ATAATTCCTG TGTGCGTGT ACTCAAGCAA ACCAGAAAGT
 GTCMTTGTGA AATACGCATT TIGGGCCTCA TCCTCATGGA GGTCCCGTT GTTGTGTTG

SEQ ID NO:1521: (Length of Sequence = 339 Nucleotides)

GGGACAGGAA GCCTCTTGGG TTGACTCAG ACTCAGGAGG TGAATCAAGC CTCAAGCTCA GAAGCCCTCT GTNACCATCT
 GTTGAATCAG AAGCATGCCC ACCATCCCAT GCAGTGCCTT TCCAGGCACT GTCTGTAGC AGACGGAGTT CAGGCTTTGG
 AAGTAGACAG ACCTGGGTTT AAATCACAGC TCCGCTCTT CCGCTGAAG CTCCATAACC TAGGATAAAG TCGCTAAGCC
 TNCCTAAGTC TCAGATTTCT TACCTCTAAG GTGAANGGAT TGGATTCCAC TTTACTTCCC CCCTTTTCCC TTTANGGACT
 CTGCATCCTC NTTTGCTTG

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SEQ ID NO:1522: (Length of Sequence = 405 Nucleotides)

GTGAATTTCA AGCAATTGTT AATGGGGACC AACAGGGCTG CATTAAGAAA ACCACTTTNN ACTGATCTCT CCCCCACATA
 TTTTAAATTT GTCTTGCTTT GTTTATTTTG GTTATGCAAG TCCTTTCTCT TCATGAAACA AGTGTAAGGC TCTAAGGCTA
 AAATAATAGT TATTTTGTG GGGCCCAAT AGCTACTTTT GAATTTCTTT CTTTAGTATA TCTCAAATCT GGGGAACATG
 GAACTTGAAG ACTCCTAACC ATGAAGCATT TGGAAAAATA CATATCATTC ACTTTTCACA GAACCATTTT CTTAAAAATA
 AGGGGGCAAT ATCCAGATTC ACATGCATGT TCATAAATAA AGCTTTGGTT TTAAACAAA TCCACACCAG CAATTATTTT
 CAGCT

SEQ ID NO:1523: (Length of Sequence = 284 Nucleotides)

AGNTCAGAGA ACTCCAATTC TTTATTAATC ACAGCTTGCT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGNGTAAA
 TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AACGNTTCA AACTGCGAT AGGTACTTAT GGTGGGTATC
 TGGTGATCT NAGTTGGCAC AAATGCCCTG CCTAGCCCC TTAAGTGGT CACTTTCACA GATGNGTGT TTTGTGTGTG
 GTGTGTGTAG TAGGCAGGAT TGCCTTACAC TGGGGAAGAA AGAC

SEQ ID NO:1524: (Length of Sequence = 299 Nucleotides)

GTGCTGTGAC GTGACAGTTT TGCTGATCA CATTTTAGGA AGATGATGCT GTTCTTNCIT CTTAAGTATT TATTTINATC
 AGTCAAGTGA TAGGAAGTTC AATTTCAAGT ACAAGACATT TGGATCAAGA AGTGACTATT ATTTATTTAT TTNAGATGGA
 GTCTTGCTCT GTTGGCCCAAG CTGGAGTGCA GTGGTGTGAT CTCAGCTCAC TGCAACTTCC TCCTCTGGG TTCAAGCAAT
 TCCNCTGCCT CAGACTCCCG AGTAGCTGGA ATTTACAGGC ACCCACC GG ACCAGTGAA

SEQ ID NO:1525: (Length of Sequence = 398 Nucleotides)

GCCCCATGAAG CAGCTCTCGT GGATTGGAGT CTCATGCTG CAGCTCTCCC ATACTGGAGT TGCATGCTGG TGGTCTTACA
 GTGCTGGTGT CTGGGCAGTG GCCTCACTCC CATGGCTCCA GGAGGCATTG CCTGGTGAG GGATCTCTGT GGTGGCTCTG
 TCCCTGINAC AAGTTCTGC CTGGGCTTCC AGGCTGTCCA TGATATCCTT TGAAATCTAA TTGGAGGCTG GCATGACCCC
 ATGGCTTCCA CACTCTGTGC ACCTGCAGAA TCAGCACCAT GTGGACACTG CCAAGACCTA CCTACCACCT GTGCTCTCTG
 GAGCAGCAGC ACAAGCTACA TCTGGGGCTG CTTGAGCCAT GGCTGGGGCT NCCAAGGAGC AGAGTCTGA GGGTGGCC

SEQ ID NO:1526: (Length of Sequence = 318 Nucleotides)

GTCTCTCTCT ACTGCACCAT GATGCCTTTA AAAAGAATCT AGGGGCTGGG CACAGTGGCT CACGCCINTA ACCCAGCACT
 TTGGGAGGAG TTCATTGAG CTCAGGAGCT CGAGACCAGC CTAGGCAACA TAGTGAGACC CCGTNTCCA CTAAAAATGA
 AAGCAAATTA GCTGGGTATG GTGGTCCATG TCTGTACTGT GGCTAAGCT ACTCGGGAAG TTGAAGCAGG AGGNTCACTT
 GAGCCAGAA GGTCAGGCT GTAGTGAGCC ATGATTNIGC CACTGCATTC CAGCCTGGGC AACACAGTNA GACCTGT

SEQ ID NO:1527: (Length of Sequence = 313 Nucleotides)

TTGGCTAGAA GGGAGGCTGG AGCCTTTTAT GTTGGCTTTT GAATGCCATG GTGAATAGIT TGTCTTTTAT TTGTNATTGA
 ATAGCAATTT GTACACTTCT GAGCTATTAG AGTGAAATGA TTAAGCCTGT GGTTTAGGAA GAAAGAGCCT ATTAGGGAGA
 TAAATCTTTC CTTAGTTGTA GGAAGGGTTG GAACAGTATG ATATGGAGAG GGTAGTAATG AATGANGGAA TNGAAAACGA
 GAATAATTTT AATGATACTG GAGGTGCAGT ATACAAGTTG NGCAGTAGGT TTATGTCTAG GAAGATAAGA AGT

SEQ ID NO:1528: (Length of Sequence = 405 Nucleotides)

GCGTCTGCTA CCGCCACGCG CACCGCCACC GCGCGAGT GCTGTCTCTA TGGCGAGGAG GAGGAGGAGG AGCGCGAGTC
 AGCGACACAA GTACATAAAT AAAGGATAAA ATATTTTATG AAACAAATCT TCAATCAAGT ATAACATTTT GATGCTTGGC

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ATCTAGACTC CCTTGTGCCC TCACTATGCC AGCGGAAGT TAGATCATAG CCAAAGAATT TGTGAAGTTT GGGCTTGCAA
 CTTGGATGAA GAGATGAAGA AAATTCGTCA AGTTATCCGA AAATATAATT ACGTTGCTAT GGACACCGAG TTTCCAGGTG
 TGGTTGCAAG ACCCATGGA GAATTCAGGA GCAATNCTGA CTATCAATAC CAACTATTTT GGTGTAATGT AGACTTGTTA
 AAGAT

SEQ ID NO:1529: (Length of Sequence = 241 Nucleotides)

GAAGGAGAAA CACTTCTTGC CTCCATAATT CAGACAGTAA ACTGATCGCT GAGATTGAAG TTTGCTTGTT TCTGGGGAA
 GCTTNAAGAT CCTGTGGGA CCACCATCCC CTGCTCAGTC CTCCCTGGAA GGGGGCACTG GCTGGGTATG AGCCGCGTCA
 CCGTTGGGTT TGTAACITTN TGGATGGTGC CTGNTTTC CTTGGGGCTG GCTGAGGAAA GGGGAGGCGG TAGNGTCTG
 C

SEQ ID NO:1530: (Length of Sequence = 356 Nucleotides)

GGTCTCATGC AAGGGTTTCC CATGCCGTGA AGTGTGTTT TAATCCCACA TGTATCAGGT GCCTGGCTGC TCTGGGACTT
 GCAGTAATTG TCTCTTGTT GTTTCAGGTG TGATCCCCTG GGCCCGTTT TGTGCGGGG AGAAGACTTA GACCCTTTGT
 GGTGAGTACT GCTGGGGAGG TGGCAGCAAC ACAACTTGCT TTNTGGCTT TTNAGCCCCA GCTCATCTTC TAATTNAGA
 GTTTTGGGTC AGTCTCTTCC TTTGGGNGTN GAGGAGGCAG TTGTTTGCTG AGCAGCTGAG AAAGCACTGC CACATACGCT
 GGCCCTCCA CACCTAGAGC GGTGCAGGAG AGCACT

SEQ ID NO:1531: (Length of Sequence = 379 Nucleotides)

CCAACAGATG CTGCTACGTT TCCTTCAAAA TTGTTAAACA TCTCTGCGG AAGAAGCTGC TTAGTTATAT CCAGCGATTG
 GTTCAAATCC ACGTGTATAC AATGAAGGT GGGGTATCTA GCAGGATGTC TAGTTCACGC ACTGGGTGAA AAACAACCAG
 AGCTGCAGAT AAGTGAACGA GATGTTCTCT GTGTTGAGT TGCTGGACTT TGTCATGATC TGGGTATGG GCCATTTTCT
 CACATGTTTG ATGGACGATT TTATTCCACT TGCTGGCCCG GAGGTGAAAT GGACGCATGA ACAAGGCTCA GTTATGATG
 TTGAGCACCT TATTTAATTC TAATGGGATT AAGCCTGTCA TGGAACAATA TGGGTCTCA

SEQ ID NO:1532: (Length of Sequence = 307 Nucleotides)

GATAAACTTG AGCCACCAAG AAGTGGACTC TGCCTAGGAA GACAGTTTGC TGAAGTTAGA AAGTACTGGT CTAGGAACCA
 GAAAACCTGA TTCTNCCAA GAGTTAGAAT TGTNAGTATG TTCTTNTG TTTTNAAGTTT CTTATCTGT AAAATAATTA
 CCCAGTTCAA TTGGATAATC TCTATGATCC CTCCACATT CTGCATACCT GGATATCTAC TGTTTCTAAA TATTTTGGCA
 TTTCTTATAA AGCCCTTTC CATTNCTTT ATTATTTTTC CCTCACAAGA ATTCCTGAAA TAGGATA

SEQ ID NO:1533: (Length of Sequence = 337 Nucleotides)

ATGGCTTTAT TTGCTGATTG AGAAGTGGTC CAGCCGTGGG CTAGCAGTCA TTTACATATC AGTGACCAAA TGCAAACATA
 CCGTACTAA CAGTGCTTTG GTCCATGACA TACCCTTTGT ACAGCCCCAA GCTGAAACGT CAACTCTATC TGGGGTACT
 TGCTTATACA AAGATGTTAC TCTAGCAATT GTTGCTTGAG GGCAAGACCN GATGATTGTC ACTAGTAGGA AGAAAGCAGA
 AGTGATGCAG CTTACACTGC ATAGTCCCTA CCCTTNTGGA TTAATGGAA AAGTTGCTCA AACATAAACT TGTTCTTAAC
 AAAGGTGGGT AAGANTC

SEQ ID NO:1534: (Length of Sequence = 317 Nucleotides)

ATGGGCATGT GGGTACTACG TTAAATATT TAATTATTTT AAAAATAAAA TAGGAAAGAT AAAATAGCTT AAAGTGTATT
 GATGCTCTGA ATAACTTTAT GAGTGAATAG ATACTGAAAT TTGAAGTCAG TGTTTTCAC AACAAATCAA GATTTGGGAC
 TGGACTTACT GGGTTGGGA CTCTTAGGG ATAACGGTGG TGCTATGAGC ATGCTGGAAA GATGAGAAGC AAAAGCCTGG

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AATTGGGAGT CCTGTACTGT CTTTAGGGTA TGCAAAGAGG CTCCTTCTTT TCTAGGIGTT CATCAGTACA ATATGAC

SEQ ID NO:1535: (Length of Sequence = 323 Nucleotides)

ATATTACATT GATGTCAGTC TTAAAGATG GAGTAGGACT TTNCAGGCAG CAACGAAAGG GAAGGACATT TCAGAAGCAG
AAATACCAAT TGTAAAGGA TGACAGCCAA GAAATATTAA AGCATATTTG GAAAGTATTG AAAATCTCTG TGTGGCTAGA
ACTTTAGATG AAGAATCAGA TACATCTGGA GAAGGAGATT NAACNGATG ATCATAAAGA ACATTTTATT TAGGCCATGG
TAAGGCTTGG GCACINIGGA GCCCATGAAG GTTTTGGAC AAGGGAGTTT CCTTAGGGAG GAGTATNAAG CCATAAACCA
AAT

SEQ ID NO:1536: (Length of Sequence = 305 Nucleotides)

AACCACATTT TTAGTGCATC TNCTCCACGC TGGATTCCAA CATGCTGGCC CGGAGCGTGG CTGGCTGGAA GCAACTCCAA
CAGGTTTTTC CCTTCCCGT CATGTACATT ATTTATTTT GATCTACTC ACTGTCCCAA GTCCAGAGGC AGTTACAAAA
AACACTCTTG ATGCAAACCG TGAGTGGCTA CAACACACGG ATGGGGTGG GCGCGATTCC CACAACAGGG AGTGAATCC
GGGGAAGATG ATATATAGGG GCAAGACGGC CCTTACTTT GCTAAGAGTA TATGGGAGCT CAAAA

SEQ ID NO:1537: (Length of Sequence = 279 Nucleotides)

GGTGGCAGCG GCGGCGCGC GACTGAAGCG CGCGAAAAGC TGAGGCGGCA ACGTCGGGGA CGGCTGCNCG GGACGGCTCT
GTAGGAAGGA ACTTGGTTCC CCTTCCCTCA GCTTCCGCCC CAAAAGATTG AGAATGGACA GTTTAGAAGA ACCTCAGAAA
AAAGTCTTTA AGGCTCGAAA AACGATGAGA GTNAGTNATC GTCAGCAACT TGAAGCAGTG TACAAGGTCA AAGAAGAACT
NTTGAAACT TGATGTCAAG CTGTTAAATN GCAACCATG

SEQ ID NO:1538: (Length of Sequence = 310 Nucleotides)

ATATTTCTT CTGCTCTGAC TCCGGAAGAA CTGCACTGT TGCCTAGGCT GATAATCCCC GAAAAAAGT AACAAATGCA
ATINTACCCC CCACCCCAT ATACAGCCCT CATATATATA TATGAGAGAG AGAGAGGAAA AGATCATGAG ACATGTCTTC
TAGGGAAAAA AAATCTAAC TTCCCTAGCC ACTGTAGTCA TTTGAAACCT GAGTTAGACT ATGAGTTAGG AAGTATTTTC
ATAGAGTTCA ATTAATATAT TTCTGCTCTA TGCATGGAAG CTAACAGGTT TAAGGAAACA CAAAAGCCAA

SEQ ID NO:1539: (Length of Sequence = 267 Nucleotides)

GAGATTTTAC TTTGTAATCG AGTAATTTAG CCACACTCTT GTGAGGGAAC AAGCCAGAGC CAGGACCGCA TATTACCOGG
TAAAGCTGCA GAGAAGACTT GAGACTTGTA AGATTGNNCC NGGCTGCAGT CCGTGGTCA GTAACATCTG CAACATTATA
CAGCCAGCAG ATCAGCTCTT CCAGCTGACA GCAAATGTC TTCACACATT GCACCACTGA TTCTTTTCCC TGINCTCTC
CTTCCCTGGG GAAGCTGCCC TTNAACA

SEQ ID NO:1540: (Length of Sequence = 354 Nucleotides)

ATTTATTCAG ATGAAAAAA ATCAAGGCTT AATTTAAGTA ACTTGTCCTA GGTCAAGGAG TTGACAAGTG GCTGAGCTGG
AGTTCAGCAT CTCAGACATC TTCTTTGAA TCCTTGCCCT CCTTGGAAT TTCAGATGAC GGAGCATGAC GGCTGCATGA
TTATGGGGTC ACCGGGCTG TCCTGGGCT GAGGGACCAA GGATCAGAAA GGGCAAGAAC CAACTGNTC AGCTAGTGAA
AGTGCAATTG GACANTGATC CTGTTCCGG GNTTAACCTT CCGCTTGGCC TTTAAGAGGG NITCTTGAA TGCACCAAGG
GGGCTAGAG GAAGCAAGCA AACINCTTGG ACCT

SEQ ID NO:1541: (Length of Sequence = 403 Nucleotides)

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GTGATGTTAT ATCAGGTAAA ACCTGTCCTAA GGAGAATAGA CAGTAGTTAG TTCAACTTAC TCATTACGTA TTAGGAAGAT
TAACCTGGTT ATCATTGTTT TATACATATA TATATGNAAT ATATATGAGT ATTCTGTATA ATATAATACT TTTACCTTGT
TTATGTATTT ACTCAATATT CTCCTTTTCC TCTAAAATAA TCTGAAGTGA CTATTATCAA TAAGTTTACT ATGCCAAAAT
TCATTAATTG CCTTTTCATT AACTTTTGGG GCCATAATAA ATAATAAAAT GTATTGCCAT AACATTAATA AACTACCTTA
CAAAACCACC AATTAAAATC AAACAACCAA AAAGGTGTTA TTTACATCTG NNCACATAAA TCTACTAAAA ATACAGGGTT
CAT

SEQ ID NO:1542: (Length of Sequence = 333 Nucleotides)

CTGGTACATG ANITTATAAA AACATGTCAC GCCCGGCTCT GTGGCTCATG CCTGTAATCC CAGCACTTTG GAAGGCCGAG
GCGGGCGGNT CACAAGGTCA GGAGATCGAG ACCATCCTGG CTAAACCGT GAAACCCGTC TCTACTAAAA ATACAAAAAA
TTAGCCGGGC GTGGTGGTGG GCGCCTGTAG TCCCAGCTAC TCTGGAAGCT GAGGCAGGAG AATGGCATGA ACCNGAAGG
CGGAGTTTTT AGTGAGCAGA GATCATGCCA CTGCACTNCA GCCTGGGTGA CAGAGCAGAG CGGGGACTCC GGAGCAATGG
GNAGTACAAT CCT

SEQ ID NO:1543: (Length of Sequence = 329 Nucleotides)

CCCCTGATAA ACCTATCAGA TTCTGTGAGA CTTATTCATT GTCATTAAGA ATAGCAGGGG AAAGACTGGC CCCCATGATT
CAATTACCTC CCCCTGCATC CTTCCACAA CATGTGGGAA TTGTGGGAGA TACAATTCAA GTTGAAATTT GGGAGGCGGC
ACAGCTGAAC CATATCAGTC TGTATTATCT CTCCTTTTCT CTGCTTTAAG NGACTATACG NAGGTGTGTG TTTACGGNT
TATACATAGG TATTCTGAAA GATGGGGTTA TTTTCTGTTT CANACTTTGA CTAAGTGGCT TCTTTTGTCC CCTATGTGCC
AGAATAGCC

SEQ ID NO:1544: (Length of Sequence = 313 Nucleotides)

CGGAGATCCG TGATGTAACA AGGATTGANC GAATCGGTGC CCACTCCCAC ATCCGGGGAC TGGGGCTGGA CGATGCCTTG
GAGCCTCGGC AGGCTTCGCA AGGCATGGTG GGTCACTGGC CGGCACGGCG GCGGGCTGGC GTGGTGCTGG AGATGATCCG
GGAAGGGAAG ATTGCCGGTC GGGCAGTCCT TATTGCTGGC CAGCCGGGCA CGGGGAAGAC GGCCATCGCC ATGGGCATGG
CGCAGGCCCT NGGCCCTGAC ACGCCATTCA CAGCCATCGC CGGCAGTNA AATCTTCTCC TGGAGATGAG CAA

SEQ ID NO:1545: (Length of Sequence = 384 Nucleotides)

CCCAAACTT GGAGCTAAGA ACTTCATCTC ACTTTTGACA CCCAGCCCC CAAAATATGG AAGCCCAGGA GAGCCAGGAG
AATTTATAGC AGAGGCTTAA AGAGAAAGTT ATGATTGTGT TAAAGTAGAG AATAAGGTGA AAAATAAAAC CTGGTACTCT
GTCTGGAAGT CCTGGAAGTC TCCTTGCCCA ACCTCAACTG GCCTGTGGGC TCCTGTNTCC TTGCTCTGGG ATGCCATGGT
GAATGTGAAA ACAGGGGAGG TTGTGTGTGG GGGTGGGAAT GGCCINTCGG TTGCAAGGCG AGTCCTTTGC TGAGCCCAGC
CTGAGACCCA GCTTATGGGC TTTATCCAGG TGAGAAAATN CTGGGGACAT GTGTTCGAGG TTTA

SEQ ID NO:1546: (Length of Sequence = 345 Nucleotides)

TTTAAAGAAC AATGATTAG TGAAAATNCT CTCAGTTTTT TTAAATTGGT TCAGCAATTG ATTAATTACT GAATCTTGAC
CCTAAACTTT TTAGTCTAGA AATGTGCTTG AGGAATACAG GCTGGAGATC AGCTTTTTTGA CATTGCATTC CCTCCTGGN
TCACATCCAT GTTGAATCA ATTTATAAAC TGCCTTCTTA AGGCTTAAAA TGATGGTGAT CTACAGACAA GTGCCTTCCT
AGGCACAGGG TTGCTGGAGA CTGATGCCAG GCCATGGCT CTAAAGGGA ACACTGAAC TATGGCAGAA ATGGTGGAAA
GTAGAGAAAT GAATAGAGG GGGAA

SEQ ID NO:1547: (Length of Sequence = 342 Nucleotides)

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GGAGGCTGAG GTGGGAGGNT CACTTGAGCC TGGGAGGTTG AGGCTGCAGT GAGCTGTGAC TGCACCACTA TACTACAGCC
 TGGGAGACAG AGTGAGACCC TGTCTCATAT ATATATATAT ATATGTATGT ATATATATGT ATGTATATAT ATCTCTAATA
 TATTAATATA TATCTAATAA ATGTATCTTA TATATAATAA ATATATCTAA TATATAATAT ATATATTNCC NAGAGAGGGA
 GAGGCTCTTA GGAAATTATC TTCTTGCTA TTATGTATATA TTATGCTATA TTGGGCTATT TCCTAAGAGC TCTATCGTAT
 TATTTCATT TATTGTGAG GA

SEQ ID NO:1548: (Length of Sequence = 334 Nucleotides)

GGAAATAAAG GTGACATGAA CTAACATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT
 CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGAAGT GGTATCCAGA
 TAGGTTATCC TTGGAGAGTA TCCNGGGATG TCTCTTTTCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG
 AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTTGAGGAA TTCACGTAAG GNATGATAAT CTGAATTTTC AGGGCTAGGC
 TCAGAAGCAG GAAT

SEQ ID NO:1549: (Length of Sequence = 362 Nucleotides)

AGGATTCTGG GGGCTTAGAG AGGGCAGCCT GGAGAAGCCA GAGTTAAGCT CAGAACAAGA GGTGCAGGAA GAGCCACAGC
 AGGGAAGGGA AGAGAGATCC CAGAGGAGGG GCAGAGINTG GCAGGACAAG GGCCCTGCCG TACATGCTAT GCATGAAGGA
 AAATCTTGAG ACTAAGACTC ATGAAAAGNT CAAAATAAT TATTTCGTGT GGCCCTAGA AGACTNAAGA GACATTINCT
 TCGCCATTG CCCAGGGCTG CCTGGGCAGG AGACAAAGGA ATNAAAAGTC CAGGGGGAAA GCAAAAATCT ATGGGCTTCT
 GAACACATGC TTCCCGGAGC TCGTCTNCAC AGCATCTTCA CC

SEQ ID NO:1550: (Length of Sequence = 328 Nucleotides)

GGACTAATTA ACTAAGAGG TTTTGTACAG CAAAGAAAC TGTCAACAGA GTAAACAGAC CTACAGAATG GGAGAAAATA
 TTCACAACT ATGCACCAA CAAAGCTCTA ATATCCAGAA TCTATAAGAA ACTTAAACCA TTGAACAACC AAAAAACAAA
 CAACCCCAT AAAAGTGGAC AAAAGTCATG AACTGACACT TCTCAAAAAA AAGACATACA AGCAGCCAAC AAGCATATAA
 AAAATGCTTG ATATCATTA TTATCAGATG AATGCAAATC AAAACCACCC AAGTCTTTTT CTCTCTCTA GGTAAATTTA
 TTTTAGGG

SEQ ID NO:1551: (Length of Sequence = 365 Nucleotides)

CAGGAATTTA CATGGGGAGA CCTACCTATG GCAGCTCTCG CCGTCGGGAT TACTATGACA GAGGATATGA TCGGGGCTAT
 GATGATCGGG ACTACTATAG CAGATCATAC AGAGGAGGAG GTGGAGGAGG AGGAGGATGG AGAGCTGCCC AAGACAGGGA
 TCAGATTTAT AGAAGGCGGT CACCTTCTCC TTACTATAGT CGTGGAGGAT ACAGATCAGC TTCCAGATCT CGATCATACT
 CACCTCGTCG CTATTAAAGC ATGAAGACTT TCTGAAACCT GCCCTAGAGC TGGGATATTG TTTGTGGGGC AATATTTTTN
 ATTGCTCTT GTTTAAAAAG TGAACAGTGC CTAGTGAAGT TAGGT

SEQ ID NO:1552: (Length of Sequence = 330 Nucleotides)

GATCCAAAAA AATTTACTGA AATAGCAAAA ACGTGGACTT TGGGATTTCC TCTAACTGCT GCAAATTATA ACACAGAATT
 GCTCAGTGTT AATACITGAN TTGTGGGGCC AAGTCTTCTG GCTGCCCTAG TTCTCTTTTC TGGCATTTGA AAGCCCTTGA
 GCTAGCTATG GAGCTAATCT TTGGACAGGC TTTTGTGTTT CCAGGAATGT CATGCCCTTG AATTCCAAT CTATATATAT
 ACAGTGTGTG TGTATGTATA NCTGTCTTTT CACTGTAAAG CACCTNCACC CATCCCTTAT AGAAGGNGGC CACAAACAAT
 CAAGCAAATG

SEQ ID NO:1553: (Length of Sequence = 304 Nucleotides)

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CCCTTGTCCTC ACAGCCATTT AAAAATCTTC TGAAGGGCCT CAGGGCACAA AGTGATCATT TGGGATCCTA AGTTAAAAAG
GAAATGCAAG AGTAGGNTAC TCCAATTCCA GAGTCTTTGC AGGAGGCTAA TCCCACAAGA AGGGTAGCAT CAGAGAAGTG
GGCATTGGTC TTAGTGGTGG ATCATCAGGT AGACAAGTGA TAGTGTGTGT AACCCATCTG AAATTCATTT TACCGTCACC
ACTCTTACAA AGGACAGTTT ATCCCAAGG ACAGTGCTGA CGGGGAGGGG GACAGGCAGG GAGT

SEQ ID NO:1554: (Length of Sequence = 309 Nucleotides)

TGTGTTACTG ACCATGTTTT TGAGAGTAGT GCCCTAACC ACTTTGTCTC CACTTGCATA GTGTAGTGAT TTTNAGNCT
CTGTATGTCA TATTATAACA GAACTGACTG TATATGGCTA TTTTATCCA TAATCAAGCC AATTCCTCCA GAATATTACC
ATCAGTATTA CCACATACAT CCTCCCAAT CTATTITCAA AGAATAAATA TATAGTCACT CATGGTTTTT AAGNAAACCC
AAAACACTC AACCAAAACC TTGAGGAAGG TTTTCCAGG GNTTCTACC TTAATTATTC ATAATGATT

SEQ ID NO:1555: (Length of Sequence = 326 Nucleotides)

GTTTAAAAAC TGTCCAAATG TCATTTTAAT TTATGAAGGC ACCAGAATA AGINCTAATC TCATACTGCC CCAATATATT
TNCTGAAGCC AATTCTCTCT TTTATTAATT TTTACTGAAA ATAGCACTTT TTTCTCTCCC CTGATAGTAC TGGGTAAATG
TAGAATGTCC TCTAAAATTC TTTGGACCTT ATTTACATTC TCAAGAGNIT TTTTTAAATT TACCAATAAG ATGTGCTATT
TGAGGAATTA GACTTTAGTT CAGTTGTACA TGGNITATGT CTGCTCATAT CATTCAATGC TGAGNCTTTC ATTTTATTAA
TATGGG

SEQ ID NO:1556: (Length of Sequence = 375 Nucleotides)

CCCATCCCTG TTAGGTGCT TTGTCCTCT TGAGGAGCCT CCAATGCTGC TGCTCCTATA CATGTCACAA TTTCAGACCC
AGCATGCTAG GAACTGCTGC CAGCGCCTGG TTAAGCCAAT ACTAAATGGG GCCAAACAGG TGAACAGACA TTCTGTCTTT
CTCCAAACCT CTGAAAAGA TTCTGCAACT CATCTCACAG TAATTGTTC CTAATTTAC TCTTAGGAAA TTGTGTTAA
AGTCTGATTA GGTAAAGTCC AATTCCCTGT AATTAGGATC CTCAGTGAAG AAAAATCTAC CCATCACCAC AATTTATTTT
CTTTCTATA GCTCCAGCAT CAGTAATTGT ACCATTATTT TTGGCAGCTC TGGGG

SEQ ID NO:1557: (Length of Sequence = 306 Nucleotides)

AATTCGAAG ACTATTCCTA TACATTAGAG TGAATTINAG ACTATCTCCA TCATTCTCCA GCCATTCTTC AGTGGGAAAA
AAACGGTGA AITAAACTAG TGGAAACAAG GCTTTCTCAT CTAGTCCCAA TCCAGTCGAT AAGCTGTGTT TNCCAATCAC
TGCTCCAGCA CAATGGCCCT CAGTTTATTT TTAAGTCTAT GGCATGCTG AAGGACCATG TTCCCATGAG TGACACCCCT
CTGTAAATGT GGTGGCACAT TATGGGCTGC TGTTTTAGAA GGGACTGCA ACTTGCTGGG GGTAT

SEQ ID NO:1558: (Length of Sequence = 292 Nucleotides)

AATTCCTCCT TTCCAAATGT AITTTCAATC CCTTGAGTGT CTAGGCTTCC TGCTTTTAAG GCTTNCCTTC TAACCCAGGG
TTGCCCATC CACCTTAAAA CATTTTTCAA TAACCCAGAA AAAACCAGN TGAACATACC CAAGCTCCGG AACCAGCAAA
TNTTGTTCGA ACCCCGCTGA TGACTCCAG GGAAGCCAA GAGGACAAAG ACAAGGATGA GGACGAGGAC CCAGGGACCG
NIGGTGAATG GCAACTGCTG TCACTTCAC TTTTCAACCT CAGNCAGTTT GT

SEQ ID NO:1559: (Length of Sequence = 246 Nucleotides)

GTGGTCCGTT CTCAGCCCAA CAAGAGTGAT CCTTTTAAGG TCCACACAG CTGCCTCTCC TTCTCCGCA TGAGCCTCTG
GCATGGTCTC TCCTCCAGCT GGCCCGGGC TGGGCAGAGC CTCTCTCTGC CGGGGCCCT GCCCACCCC TCCITGCTC
GGAGTINAGG TGTTTATACC AAAGACGGA CCATTTCGCC TTAAAGAAA ATATATNCAG AAGCAGCCGC TGCTCGNAG
CCCTGG

SEQ ID NO:1560: (Length of Sequence = 383 Nucleotides)

CCAAAGGTAC AACAGATTTA CTACATTAA GACAGGAATC TTTTCTAATC TCTGTGCCTA TTAAAGAAGC CACCTGCTTA
 GAAGTACTTT GTAGATGAAA AAATACTTAT GAATCCACTG TAACTTCACA ATCTTGAATG CCAAGGAAAA ACTTTACTAG
 TTTCAITTTAC CACTATTCTT TAAAGINCIT TTIGATTTTA TGTTTTAAAT TTTTAAATTT TATATTTTGA GACAAGGTCT
 TGCTCTGTTG CCCAGGCTGC GGGGCAGTGG CATAAACGTG GCTCACTGTC ACTTTGACCT CCTGGGCTCA AGGAATCCTC
 CCATCTTAGN CTCTGAGCA AACTGGGNCC ACAGGCATGC ACCATCATGN CCAGCTAATT TTT

SEQ ID NO:1561: (Length of Sequence = 313 Nucleotides)

CCCCCTCCAC CGCAGTCTGT GCCCCCGTCC CCACCACCAC CTTCCCCAAC CACTTACAAC TGCCCCAAGT CCCCAACTCC
 AAGAGTCTAC GGGACGATTA AGCCTGCGTT CAATCAGAAT TCTGCCGCA AGGTGTCCCC CGCCACCAGG TCCGACACCG
 TGGCCACCAT GATGAGGGAG AAGGGGATGT ACTTCAGGAG AGAGCTGGAC CGCTACTCCT TGGACTCTGA AGANCTCTAC
 AGTCGGAATT NCGCCCCGAA GNCAACTTTC GNAACAAGAG AGGGCAGATG NCAGAAAACC CATACTCAGA GGT

SEQ ID NO:1562: (Length of Sequence = 320 Nucleotides)

AAACGGGCG CGAACCGCAG TATCATGCTG GCCAAGAAGA TCATCATTA GGACGGAGGC ACGCCTCAAG GAATAGGTTT
 TCCTAGTGT TATCAGCAG TTATCGTCAT CTTTTTGGAG TTTTTTGTCT GGGGACTATT GACAGCACCC ACCTTGGTGG
 TATTACATGA AACCTTCTCT AAACATACAG TGTTGAACAG TTCTAATACA GCAAATTTAA TACAATTTTT TATTAGATCA
 AAATTCAATA GAATGTTTCA TATGTTTTAA GGAAGGTTCA TTGAATTTCT TCTTTTCAAT GGAAGTCTTC ATTTGGAAAA

SEQ ID NO:1563: (Length of Sequence = 299 Nucleotides)

GCACAAGCAT GACCTGAACC TGTCACCTGC CGTINAGTAT TTCACATTTC TATAGTTTTT TGIGATTCTG CCTGCATTTA
 ATCATCATCA CCAACAAAA TAGTTCCTCT GAAGAATTAT TTTATACTAG GATTCTCAGG NTATCTCTC TCAATCTCTA
 TTGGGATCAC TCCACTCTGA CTGTACACT CATTTTCCCA CTGATGTAGC TGTTCTCAAG TTAGAAGTTA AGTCTCAGT
 CTTCAITTTA TCAGTCATCT CAGCAGCATT CATTATGGTT CAGGCACTCC CTCCTATTT

SEQ ID NO:1564: (Length of Sequence = 325 Nucleotides)

CAGATGGNCT AGTTCATACT CTGGCAGTTA ATTTTATTTT CTCTAAATAA AAATGGACAG GTTAATTTAT TAAGCAGCTG
 TGTTATCAAT ATGGTACGTG TGTGNTCTTG TATAGATAGA TGTATATGTA CATAcataac TATACATTTT NCTGGACACA
 TAATATTINA GGTGCCATTT GTATGCTAGA CACTGTTCTA CCATCAGTAA AAAAGCACTG CCGTGTTTTA CTGTGATTA
 AAAACAAAAT TCTGAAAATA GTGANCAATG AGGCTTACAA CATTGTGTAC AGGNTAAGGN ATCTCAATTT AGGAAAATGT
 TGTCA

SEQ ID NO:1565: (Length of Sequence = 382 Nucleotides)

TTTTTTTTTA TATTAGTCC TGCTTTTTAA AAGTTTATTT TACATTTTAA ATACAGTATT TTTCTCATAA AAAAAAATC
 CAGGAAGTGC CTAACCCAT GGTTCCTATA CCATATGTAC ATGAAAGCTG ACAGAGAGCC TGACAAATGT TCTGGATGTA
 ACAGTATGAA CACCTATGAG CTGGGACTAC TTCTGANTCA AAATTAAAAA ACACAAATTA AGCACTGCTT AAGAAAAAAA
 AAATCCAGTT TCTGAACAAC CAAAAGAGAA CAGAGTTAGA TATGTACAAA ACCAGGTATT AAAANCAGN AAGGAATACA
 GCACACAAA ACTCAACAN CCCATATGTA GTGAAGTGT TATACTGCAG TTAATGAAAA CC

SEQ ID NO:1566: (Length of Sequence = 305 Nucleotides)

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GCACTGTGGC TAATTGTAGC TCAAAAGATC TGCAGAGCTC CCAGGSGCGA CAGCAGCCTC GGGTGCAATC CTGGAGCCCC
 CCAGTGAGGG GTATACCTCA NTTACCATGT GCCAAAGCAT TATACAACTA TGAAGGAAAA GAGCCTGGAG ACCTTAAATT
 CAGCAAAGGT GACATCATCA TTTTNCGAAG ACAAGTGGAT GAAAATTGGT ACCATGGGGA AGTCAATGGA ATCCATGGCT
 TTTTTCCTCA CCAACTTTGT GCAGATTATT AAACCGTTAC CTCAGCCCC ANCTCAGTGC AAAGC

SEQ ID NO:1567: (Length of Sequence = 292 Nucleotides)

GATTTCCTTG GGAAGACAA CATCACCAGC AAATGGATGA TTGTCAACTG GGGAGCCATT GACTCTCCAC TTGATTGTGG
 GTTGAGGTTT TNCITCAGCC TCACATAACA AGATGCCATT GCTTCGGTG CTATACACAG CACTCTGAGG CTTCTTTTGC
 CAGCGAGGAG GCTCTTCTAC TATAACGTGA AAATCGTGAG TGGCTGTTCC CAAGAAATTG CTGGCTGTGC AGCGATAATT
 TCCTTTGTCC TGGTAGGAGA CATNCTCTAT CTTCAAAGTC TTGCCATAAT TT

SEQ ID NO:1568: (Length of Sequence = 204 Nucleotides)

ACCTACTCAG GAGGCTGAGG CAGGAGAATA GCTTGAACCC AGGAAGCGGA GGTTGCAGTG AGCGAGGTC ATGCCACTGC
 ACTCCAGCAT GGGCAATAGA GCGNGACTCT NTCCCCCGG AAAAAAGAA CAAGGGCTAA NTTCAAATCA AATTTTCCCT
 GTACCCTAAG AANAATAATT AGNCGGGAG ATGTTTGACT AAGT

SEQ ID NO:1569: (Length of Sequence = 362 Nucleotides)

CACAAAGCCA AGTACAGAAC CACAGAATGA AGCCGTCACA AATGTTGAAT CCCAAAACAC TAACAGGAAC AACTCGTATT
 TCCATTAAATC AAGATTTTAG TATACCAAAT TTTCTAGTTT TTATCTCATG GAAATATAAG GGTATTTTAT CTTTGTATG
 CTACTGAAGG GNAACATCA TCATACAGCA ATGAATACIT CAAGGGNCTT GTTGATCTCT CTATTATTGA CAGTGGGGTG
 TTAAGTCTC CCACTATTAT TGTGTGGGNG GCTACANCNC TTTGTAGGGC TCTAAGAAGG TGTTTTATGA ATCTGGGGGC
 TCCTCTTTGG GNGCATATAT AATTTAGGGT AGTTAGTTCT CC

SEQ ID NO:1570: (Length of Sequence = 262 Nucleotides)

TGCTAAATGA TAGANGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAAACT
 GATCINTTGT GGTAGAAGTA AGAAGTGGGG TACCCTCTGG AGGAAGAGAA TTINCTTTGA AGTGCCATGA GAGGATTTTT
 TTGGCTAATG AAATTATTTT NATATCTGAG TAGGGTTGTG GGTACACAG TTTAGGCATT TINTCAAACT CATGGNACCA
 TTCATCCAAG TCCTGTGCAT TT

SEQ ID NO:1571: (Length of Sequence = 402 Nucleotides)

TGCTAAATGA TAGAAGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAAACT
 GATCTGTTGT GGTAGAAGTA AGAAGTGGGG TACCCNCTGG AGGAAGAGAA TTINCTTTGA AGTGCCATGA GAGGATTTGT
 TTGGCTAATG AAATTATTTT TATATCTGAG TAGGGTTGTG GGTACACAG TTTAGGCATT TGTCAAACT CATGGAACCA
 TTCATCCAAG TCCTGTGCAT TTTACTGTGT GAAAATTATA TCTCGACTTT TTTCAAAAAA GGAAAAATA CTTAATTATA
 ATATAGCATT TATGNATTAA AATAATCCCN TTATGTAAAA ATATTTTATT GGNTTGGTCA AGATTCATGA TTGCAAAACCA
 CC

SEQ ID NO:1572: (Length of Sequence = 417 Nucleotides)

CTACCAGCCC GTTTTCACAA CTAGCAGCAA ATCCTGAAGC ATCCTTGGCC AACCGCAACA GCATGGTGAG CAGAGGCATG
 ACAGGAAACA TAGGAGGACA GTTTGGCACT GGAATCAATC CTCAGATGCA GCAGAATGTN TTCCAGTATC CAGGAGCAGG
 AATGGTTCCC CAAGGTGAGG CCAACTTTGC TCCATCTCTA AGCCCTGGGA GCTCCATGGT GCGATGCCA ATCCCTCCTC
 CTCAGAGTTC TCTTCTCCAG CAACTCCAC CTGCCTCCGG GGTATCAGTC ACCAGACATG AAGGCTGGC AGCAAGGAGC

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GATAGGAAAC AACAAATGIGT TCAGTCAAGC TGTCAGAAC CAGNCCACGG CTGCACAGCC AGGNGTATAC AACAAACATGA
GCATCACCGT TTTCCAT

SEQ ID NO:1573: (Length of Sequence = 368 Nucleotides)

CAAATAAGTT AGAAACATGA AAAATTCCTA GAACTTTAGA TGAAAAATTA AATTTACTAC TAATACCCAC CTGCAATAAT
TTCCCGTAGT TTGGGATCTA GGTTCACAGT GCATGGCAAA AAGACTTTTA CATCTCGAGC CACAAGAACT GGGGTCCTTG
AAGACAAAAA CACTTCAAAA TTTCTTATAT CTCCATCAAT TTCAAGAAGT GGCTCAACAT CCTTAGTGTG TGGAATATTC
TTTGATATTC TTTCTAGAT GGTTCCTAAT GTCAATTTGAT CTGGAATACC TTCAGTCTCT TCCAAATATA ATATGAGNCA
TGAAGTCCGG TATGGCCACT GCTCAGTAAG GTTGATCCCG CTAGCAAG

SEQ ID NO:1574: (Length of Sequence = 397 Nucleotides)

AATTTTAAGC AAATGTTATG TTTAAAGACT GTTTTGATGA AAACCTTTAG AATTGAGTTA GTAGCAGAAT ACATAGCTAA
ATGTACTTTN CTACAAATAG AATGAGATAT TTGATTTAAA ATATTNCTTT CCTCTTGAAA TAGGATGTTA GATAGGGACA
TCTCATTFTA CCTATCAAGT TCTGAGTCTT GCTTTAGAAC TACTTCTTTT AACTTAATIN CATGCATACA CTGGAAGACA
ATAATATGGC TTTTAACTG CATTATCTTT AGTTGAAACT GATGGAGAAA CAAAATACT GCTTATACCA TATTGGGTAC
ATGCTGAATG TTTTAAAGA CTAGCCAAAA CTGACATTTT TAAAAATTAA ATAAGATGTT TTAGTTTCAA ATTAGAG

SEQ ID NO:1575: (Length of Sequence = 296 Nucleotides)

GGACTCAGCC TTCCGCGGCA TCTGCATGAT GATCGGTGTC AACCCGGGGG GCGTTGTGCA GGTGGGGCA GCTGGGCTCT
NAGGGCAGGC GCGGGCNCCTG GGCTCGGGCG GCCCCTCACC TGCGATCCGT CACGTTTCAG GACTTTATTT TCTTCTTCAA
TGNIGTAGCC TCCTGGGIGA GCCCGAAGAT NACCTCGGG ACATGTTTTA TAAGGTGAGG CTCGTCTGCG GCCCTGATCT
AGTTCCGGGA GCAGGCAGGA NGTGAGACCA TCTGGTAACA ATNGGGGCTN GGGATT

SEQ ID NO:1576: (Length of Sequence = 289 Nucleotides)

CTTTATGAAG TAGTAATTCC TGAGAGGTGT GCTGGCTGAA AACATAATAG GTTCTGGAAG AGCCAGGTAA ATGCCTGGNT
TTAGACATGC AGGGGTTAAT CAAAATAATT TAGGAGCGTT TTCAGCTGGT GAGCCTCATA TGGGATCTTC GAACCCGTGG
CGAGAAGAAA ACCGGTGTIT AGGNAGCACC AGGCACAGTG CTCGGAAGGG AGAGGCTNGC CGGCCAGTGT GCAGCTCAGC
TNTTTCGAGG ACGGAACCCG CAGCCTNGCT GTNTCCACAG AGACCCAGG

SEQ ID NO:1577: (Length of Sequence = 320 Nucleotides)

CAGACTCTAC TCAGATTTCC CGCCTATGCC CCTAGGACAG AGCTGGAAGG GAAGGAGGCT GGGCCTATTT AGTCATAATG
CCTCCCCACC AGGTCTAGCT TTCATTCTATC CATGAACCTT CACCAAGGG CCAAGAAGTG AGTTCAGTGC ACCCTGGACC
CCTGTTGAGG TAGGAGAAGT AGACGTTGGG AGCAAGGTTT CTCTCTAAT TTNTTGCAT CCCCTCAGTG CCCAGCACAG
CTCCGGATAC AGGGCAGGTT CACAGTCAGC GTGTTACCTT GGGNCTGTGT ATGCACCTAA GGAAAAGNCT CAATTTTCCT

SEQ ID NO:1578: (Length of Sequence = 217 Nucleotides)

AATCAGGAGA ACTGTTAGAG CCATACCAGA GAAATCACA AGAAAGGCAG GACTGCAAAG NTCTAGTGGA GGCTGTGAGA
AAAGGTAAAC CCCITCTTAA GCTCATCTGC CCCITTAGIT ACCACTGGCT GTCTCACTCC TGGATTATG TGACTCCCTT
AGCTATACTT TCCCANCCCC CTGGGATGTT CCCCACTCAT CCTATTCAT CACAAAG

SEQ ID NO:1579: (Length of Sequence = 375 Nucleotides)

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TTGGTCCTCA AGTCCTATTT TAAAATTTTG TCAATTAGAG GACTCTTGGT TCTCTTGGTT GACTCATTCT CTGCTGATTT
 GTTCTCTGTA CTTGCAGCAA ATAAAGTGCA GTCATTGAGA ATGNCCTGT GTCAGTGGA TGTATCAAGG GATCTTCATG
 TTAATATCTG TTTCTCTGAC AACTGTGTTT TATACTTTGT ACTGTAGCTT TCATTGGAGA AGCCCTGGGC TCATAAGAGT
 GATTTGTTGT GGCATTTCTT TATGGAACAT AAGCTTTTGA AATATACTTG AGGTAAATAT TCATGGGAGA CATCCAAATG
 CAGTAATGAG AGTACAATGA AGACAGCATT TTINGACTTTG GAAACCTGAG TTCAA

SEQ ID NO:1580: (Length of Sequence = 325 Nucleotides)

TCINCTGATG CACCCATGAG AGGGGAGACA GCACTGTGCT CTCTGCGAGT TTTCCCTTAA CACTCCCTTA TCTGCAGACT
 TAAACTAGGA GCCCCTGGCA GAGTCCTACC TCCAGAATCA CAAAAGTGTA GAAGGAAAGT GAGAGACATT GATTGACTTT
 ATATCTGACT TACTAGTTTC CTAAGGCAGA GATTTTTTAG AAAACTGCCT GGCCTGGCCC AGCCCAGGAT AGATAGGGAT
 GGGTAAGAAG CCCTTINAGAA TGTGGCAGTA TGTGGCTTNG ACTTCAGACT TGTCAGATTA GGGGTTTTAT AGGGGTTTTT
 TTAGC

SEQ ID NO:1581: (Length of Sequence = 402 Nucleotides)

GCAGATCAAG AAAAAGTTTC AGCCAATGAA CAAGATCGAG AGGAGCATAC TACATGATGT GGTGGAAGTG GCTGGCCTGA
 CATCCTTCTC CTTTGGGGAA GATGATGACT GTCGCTATGT CATGNTCTTC AAAAAGGAGT TTGCACCTTC AGATGAAGAG
 CTAGACTCTT ACCGTCGTGG AGAGGAATGG GACCCCCAGA AGGCTGAGGA GAAGCGGAAG TTGAAAGGAG CTGGCCCAGA
 GGCAAGAGGA GGAGGCAGCC CAGCAGGGGC CTGTGTTGGT GAGCCCTGCC AGCGACTACA AGGACAAGTN CAGCCACCTC
 ATCGGCAAGG GAGCAGCCAA AGACGGAGNC CACATTCTAC AAGGCCAATA AAGACCTACG GCTTTTTTCC CNTGGCCAAT
 AA

SEQ ID NO:1582: (Length of Sequence = 286 Nucleotides)

TCITAGTTGA TTAACAACAA TAATTGAAAT AAAAAATTAT GTTTATNCTT ACATGTATGC CATGTAGCAC TTTAAGGAGA
 TGAGTTTATG AAATTCATGA ATGAGAGGAT GATGTAAGTT TAAAAATCAT TATTTTAGTT GCTTTATTCT NCTATTTTAA
 ATTCAATAAT AACACAGGTG GCCTGTATTT TGAAAAGAGC CCTTTCCTCC ATTTGANCTT TATAAACACT GAGGCAGTAG
 GTGTAAATA TTATCTCCAC TTTATATTTG AAGGAAATGG GGGCCA

SEQ ID NO:1583: (Length of Sequence = 323 Nucleotides)

CTAATTTTTG TATTTTTAGT AGAGATGGGG TTTCACCATG TTGGCCAGAC TGGTCTCAA CTCTGACCT CAGGTGATCC
 GCCTGCCCTG GCCTCCCAA GTGCCAGNT TATAGGCATG AGCCACCAG CCTGGCCTTC CAGTTGTGAC CTTGTTAGGA
 TACTGCTTTA ATTCATTTTC CCATTGAAA TAAGCATGAA AATAACTGTG CAGTCATAAT TGTGGTATTT NCTGTNAAGG
 AAAGTGGCAG GGCTCTGAGT GTTATCGGG AGACCTAACC CAGTNCAGA GGGGAAGTCA GAAGGCTTAC TNCCCAATGG
 GGG

SEQ ID NO:1584: (Length of Sequence = 301 Nucleotides)

AAATACTTGT AAATCACTTT ATGTTTCTGA GTAAGGAAGT AATGAAACAT ACGTACAAGT AATCAGTAAG ACTTGTTAGA
 CAGCTGTGTG TCAGGATGCC TTTAAAAGGG CTGGTAATGC AGTTACATTC TAACAGAGAA GTCCAAACTA CAGGTAAAAA
 CTACGGCTTG TACTGTGAAA AATGTGCAGC TTTTCAGTTA TAAACTAGT TGAACACTGG TTTACAAGGT AATCCGTAGG
 AACAGAGAGA CTGTAGGAAA ATATTCCAGC ACTTTGAGTT GTGTTTTGGC AGCAGCATTT G

SEQ ID NO:1585: (Length of Sequence = 328 Nucleotides)

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AAATACTGAT TTCAGACCTT CTTGCTCTAG AAGTCAAAT ACTTTCCCC TGACAAGAGG TAAGATAAGG TAGAAAATAG
 AAACACTGGA AGAGAGATCT GGA CTCTAA AGCTGTGATG CCATAGTGTA GTGGGGGGGG GTGCGTGAGG AAGTCAGGAA
 TGCCGCAATG TTAAAGGGAA AGGGAAGATG GAGCAAAGTG AGTCCAGGG CCAGCAGGGG GCCAGCCTTN TTTGACAGGG
 GCAGGGGAGA AAAGGCCAGA CTTCCCATAC ACATGCTAGA GGGGAGGGCT AGTGTTGAAG GGTAAATAGT TGAAGGAGTC
 CACGGGCT

SEQ ID NO:1586: (Length of Sequence = 256 Nucleotides)

GGACTATCTG TATGGCAGAC TCATCAACTT TGAGAAGAGG AGGAAGGAGT TCGAGGTGAT CGCCCAGATC AAGCTGCTGC
 AGTCGGCCTG CAACAACCTAC AGCATTGCGC CAGATGAGCA ATTGGGGGCC TGGTTCCGGG CCGTGGAGCG CTCAGCGAGA
 CTNAGAGCTA CAACCTGTCG TGGAGCTGG AGCCCCATC CGAGTCAGCC AGCAACACCC TCAGGACCAA GAAGAACACA
 GCCATINTCA AGCGCT

SEQ ID NO:1587: (Length of Sequence = 371 Nucleotides)

GGATTCTACA GGCATAGACT TACACGAGTT TCTGATTAAC ACATTAAAGA ATAATTCCAG GGACAGGATG ATACTTTTGA
 AAATGGAGCA GGAAATTATT GATTTCATTG CTGACAACAA TAATCATTAT AAAAAGTTCC CTCAGATGTC ATCGTATCAG
 AGGATGCTTG TCCATCGAGT GGCAGCTTAT TTTGGATTGG TTCACAATGT GGATCAAACA GGNAAATCTG TTATCATCAA
 CAAGNCCAGC AGCACCAGAA TTTTACCAGC CAGTCTTGTC TNGTCAACAG GGGNTTCCAA GGGCTAATAG GAGTNCAGCA
 GCCCACCTCA GAGTCAGACG TGGTTAAATN ACCCCCAAGG GACTCOGGTG C

SEQ ID NO:1588: (Length of Sequence = 314 Nucleotides)

CACACAGGAT TCCATAATAC TCCTGCTGTG TTCTGAATAT TTGTAATTCA CATGGGATTA CTGAACACTA CTACGAGATT
 CTGAATGTTT GINGCTCACA TAGGATTCCA AAATGCCCC TCTGTGTTCT GTTGTCCCT CACATAGGGT CACTGCTGCT
 GGGTTCTCAG TGTTTCTCAC TCACATAGAA TTCCAGNACA CTGCGAAGAA TTTCTGAATG GTTTTCTGTA ACATAGTATT
 CCAGCACACT CTCGCTGTG TTTGAATGTT TGTCCTCAC ATAGGATTCC AGAACACTTC TGCTGATGTC TTGA

SEQ ID NO:1589: (Length of Sequence = 256 Nucleotides)

GACGAGGCAC CATGCTGAN ATCGTGCACA TCCAGGNGGG CCANINCGGC AACCAGATCG GNGCCAAGTT TTGGGAGGTC
 ATCAGTGATG AGCATGGGAT TGACCCACT GGCAGTTACC ATGGAGACAG TGATTGTCAG CTNGAGAGAN TCAATGTTTA
 CTACAATGAA GCCACTGGTA ACAAATATGT TCCTCGGGCC ATCCTGTGG ATCTGGAGCC AGGCACGATG GATTCTGTTA
 GGTCTNGACC ATTCGG

SEQ ID NO:1590: (Length of Sequence = 313 Nucleotides)

GGCAACAAGC CAAGTAGCAA AGATATAAGC AACATCAAA TGGAGCCTGA AATATGATAA GAGCATACAT GCACTTTAAC
 AATAATTTTG ATACTGGAAT GATTATTTCA GAAGCAATAT TTTINCTGAA AAGCATTGGT CTTCTGTACA GAAAAATAAA
 AAAGTGAGCT GCCACTCATA GTGAATTAAG AGCTGTGGGC TGAAAGGGTC TCITTTATAG CCAGTTTGAA ATTTTTCATA
 TAATAAAAAC AGTATGTAAA TATTATATAT ATATACACAC ATACATATAT ATGCATATAT GTACATATTT CTG

SEQ ID NO:1591: (Length of Sequence = 296 Nucleotides)

TTINAGTCTC CGGCCTCACA ATTCAAGCAG TGCAAGCTCG CCAAGGCCAG GGGAGACCTG GGTGCCTTCA GCAAAGGTCA
 GATGCAGAAG CCATTTGAAG ACCCTTGGTT TGCGCGCGG ACGGGGGAGA TGAGCGGGAC AGTGTTTACG GATTCCGGCA
 TCCACGTCAT TGTCCGCAAG GAGTAGGATT NGGGCCCCAG GCCTGGCCTC GGGGTTCCCC CGCTGCCTGC TGGCCAGTGG
 CNGAACCCCC CANTNCTG CACTNCTACA CAGTATTTAT TGTTACCAA ATGGCT

SEQ ID NO:1592: (Length of Sequence = 299 Nucleotides)

GGAATTCCTCA AATTATGGGT AGTCCAAAAG CCAAAGGCAA TGTGAGGAAG GACACTCCCC AGATAAGAAC AAAACAGAA
 ATCTGTATGT NCTATGTGTT ACACACAGTT GCGAATAATC AGATGTACAC ACATGATGCA AAGGCACGCC GCTACACATT
 TATGTGATAT TCAGACATAT GTTCAAATAG AGGAGGTGAA TATCTTTTAA TAAATACAAT TTAGCAAGTA CAAGAATGCT
 GATCAGCTGC AGCTCAAGAG GAAAGGGGGG AAAAAATCTT ATGGGAAATT ATTAATACT

SEQ ID NO:1593: (Length of Sequence = 378 Nucleotides)

CCAGTTTGGT GATTCTINTC TGTGCTGCT GATCTATTGG CGTGAGAAGC TGAAAGTGAC CAGCCAACAG CCATAACTTT
 ATGTTTAGTG AGACTCATAA TGGGTCTCCT GCTGGAAGAT CTCCCTCTA AGANTCAGTA ATTCTAGACC TGCAAAGTTT
 GAAGTTGTAA GCATGGGAAA CACAAATTC CCAAATAGGT CCAGATAGTG ATAGAGAATA AGACACTTAC TTGCCTACTT
 CCATTTCTCA GCCCAGATAT TCTACCTATA GTGGACATGC CCATGCAATG GGCTATTGGG TTGAGGTAT ACATTGCACG
 GTGAAGGAC AGTGCTCAT CCTTGCAGG GTGCCCTTIN CCAGTTGGCA CCACAGCT

SEQ ID NO:1594: (Length of Sequence = 353 Nucleotides)

ATTTTINCGG GGGAGGTGTA TGTAGATGAG AGTCTATGAT ATAAAGCAGT AAAAAAATG CTGTTGTATA GGGATGCAAT
 ATTTTCGGTG TAAGGAAGAG GTTTTAATTC ATAAATAGA AAACAGGTTG GAGAAGTCTT TAGGAAAGGG ATACCTTTTG
 GGTGGCTTT TGAAGGAGAA GTTTATACCC AGGTTCAAGC TGAAGGGCTA AGTGAGTAAC TGAAAGGGCT GAGCTATTTG
 GATTACCATG AGGAATTTGT GATGGCTGGG AATGTAGGGT GTGTGACCAG ATGTGGAATC ACAGAGGGAG CCCACAGAGG
 AGCTTCGGCA CATAANCTAA AGAGTTTAAT TTT

SEQ ID NO:1595: (Length of Sequence = 343 Nucleotides)

CAATATATTA AATCTATTTT GTAGCTGGAC TTCACCTACA ATGTAACAGA ACATTGAATA TTAGATTCTG AGCATATTCA
 TGCAAACCTC CACTTTGGTG AAAGTGATGA CAGTGGAGTT CTGGAAGACA ATTTTCCTTG TAAACACCAA GTTTTGCACT
 TTGGACTATG CTCTCAAGAT AGAACTTAC GTGAGTGGAA AAAGAAAATG TATAAATGTG AACAAATATT CCTTACCACA
 CAGAATAACC CTGGCAACAA ACAATATCCC CAAGTCCTGG GINATTCAT CCTCACCGTG GGCAGGAAGG GTGAAGGAGG
 CTGCACCTGG GNCACAGCCT TTT

SEQ ID NO:1596: (Length of Sequence = 373 Nucleotides)

TAGTCAGTTA TTGCTGCACT AGAGCTAAAT AAAAGACATA AATATCTAAG GCACCTACTG GAATAACAT CTTATTTTCG
 CTAAGAGGTT GGCTAGGGAA GCTCTGCTTC AGAGTATGGG TTGAGTATAA GCCTGTCNCCA CATGCTTTTT GCTCTGGGAC
 CAGGAGTTGT GCAGCCCATC CTTTCTCAA GACAAAAGCT GAGCCAAGCA AGGACATTTA AAGCTTCACT TCTGCTCACA
 TCATATCTAT TGGNCAACA TTCCATTGGG CCAAAGCAA TCACATGGGC CAAGTCAAGC ATCAGTAGGT CTGGGGGAAT
 ATTCTTTCTT CTACTCTTGG ACACATGGGA AAGGGTTATG CATACTAATT CTT

SEQ ID NO:1597: (Length of Sequence = 276 Nucleotides)

GATTGTCCAT ACTTGATAT TAGTTCTTAA AGAAAGTATT CTTAATTCCA AGCCTAATAG CTCCTATGTC ATTAGTTTCT
 AGTGCAGAGA AATGTACTTG ATGAATTTTT GTTGACTTTT TTTTGTGCTA GCCAATATGA AGGTTGCCAG TCCCTGCCAA
 AATCAGCACT AAAACTATTT TNCATGAGTA ATAACAATA TATTCTTTTT TAAATAGCAC CTTTAACCCA AAAATCTTAA
 GCCTATATAA ACATTCACTC AACANTACAC TCAAAA

SEQ ID NO:1598: (Length of Sequence = 355 Nucleotides)

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TGTATTGCTA ACTGTCITTTG TAACTAATTT ATGTATACNC TAAATGGTAT AGCATGTGAT TTTATTATAG TTGATTAACT
 TTGTAATINC TGTAAC TGCA TOGATATCCC AGTCTACCTG GAAAATTAAG TCTATTAACC ATAGTTGCTG TGGGAGACAG
 TACTATTGCC AACTGAAGCC TGAATCCTTC ATTTATTTTG TCCCCAGTTA CAGAGTGGAG GTTTAGAGGA GTGGGGTTAG
 ATAATGCTCA GATTAGAAAT ACAAAGGCAG CTGTCAGATC CTCCCATTIT ATTTGTTTGA AGGAACTGAG GTTGGTTAAAC
 ATCACAAGNG CTAGTTAACT GGTGAGTAGC AGCCC

SEQ ID NO:1599: (Length of Sequence = 313 Nucleotides)

GGAGGTGAAG GACACAGTGG ATGGGCAGAG GNTCCTGGAG AAGAAGGGCA GTNCTGCNCT CAAGGACCTC AAGCGGCANT
 GCATTGAGAG CGGAAACGGG CAGATAAGCT GCAGGAGCGA CTNCAGGACA TCCTCACTAA CAGCAAGAGC CGCTCAGGCC
 TTNAGGAGCT GGTTCCTCTCA GAGATGAACT CACCAAGCCG GACCCAGACA GGGGACAGCA GTAGCATCTC CTCCTTCAGC
 TACCGGGAGA TCTTTCGGGA AAAGGAGGAG CTTGGGCTTG TTCCAGCCAG GTCCCTTATCC AGCAGNCCTIN AAG

SEQ ID NO:1600: (Length of Sequence = 277 Nucleotides)

AGTTCACAGA ACTCCAATTC TTTATTAAATC ACAGCTTGCT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGAGTAAA
 TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AACGACTTCA AAATCGCGAT AGGTACTTAT GGTGGGTATC
 TGGTGATTCT TAGTTGGCAC AAATGCCCTG CCTAGCCCC TTAAGTGGT CANITTCACA GATGGAGTGT TTTGTTGTTG
 GTGTTGTTAG TAGGCAGGAT TGCTTACAC TGGGGGA

SEQ ID NO:1601: (Length of Sequence = 228 Nucleotides)

TTGAGACCAT CCAGGCTAAC ACGGTGAAAC CCCGTCTCTA CTAAAAATCC AAAAAAAAAA AAAAAAATT AGCCGGGCGT
 GGTGGCTTGC GCCTGAAGTC CCAGCCACTA AGGAGGCTGA GGCAGGAGAA TGGCATGAAC CTGGGAGGCG GAGTTGCAGT
 GAGCCGAGAT CGCGCCACTG CACTCCAGCC TCGGCGACAA AGCAAGACTC TGTCTCAAAA AAAAAAA

SEQ ID NO:1602: (Length of Sequence = 299 Nucleotides)

GGAAGTCCTT TCTAATGAAG AGGGGAGATG TTATOGATTA TNCATCATCA GGGGTTTCCA CCAACGATGC TTCCCCCTG
 GTTCCTATCA CTGAAGAAGA TGAAAAATCA GATCAGTCAG GCAGTAAGCT TCTCCAGGC AAGAAATCTT CCGAAAGGTC
 AAGCCTCTTC CAGACAGATT TGAAGCTTAA GGAAGTGGG CTGCGCTATC AAAAATCCC AAGTGACGAG GATGAATCTG
 GCACAGAAGA ATCAGATAAC ACTCCACTGC TCAAAGGATG ACAAAGACAG NAAAGCCGA

SEQ ID NO:1603: (Length of Sequence = 263 Nucleotides)

AAGGCAAGAA ATTAGCCTTG TTAAGAATTT TAAGTGTAAT GGAAGCCAT TAGAGGGTTT TAAACAAGGA AAGATGTGAT
 GTGACTTATA TTCTAATAGG ATTGCCTTGA TTCACCTATG GAGAATGGAT TNNTGGGATC TCAGTACTGG GATACTGAGA
 TCCCAGGGGG AAAATATCAC TAAGTTTGA ATTGCTTTTC TGCACATTAA AAGCAATTCN CTTTTTCCTT GAAACCTCCA
 TGTGATGTTA ATTAGGGTAA ATG

SEQ ID NO:1604: (Length of Sequence = 260 Nucleotides)

ATGAAGACGT ACGACTTATT TTTGIGTTCT GAACATAAGT NCTTTGTCC ATAAATGTG CTATGAATGT TGAGTTTTAA
 ATACTCGAGC GGTGACTCAC GCCTGTAATC CCAGCACTTC GGGAGGCCAA GCGGGCGGT TCACCTGAGG TCAGGAGTTC
 GAAACCAGTC TGGCAAACAT GGTGAAAACC CGTCTCTAC TAAAAATACA AAAGTAGCGG GGTGTCGTGG CGTATGCTGG
 TAATCCTAGG GTTCCTGTCA

SEQ ID NO:1605: (Length of Sequence = 290 Nucleotides)

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GACAGACATT CAAACCATGG CAGGTGGCAA GAAGTATCAA ACTACTAGAT CCTTGGGATT GTNCTTTGTA CTGGGGTGTA
 TTTTINCCAA CAATCCTAAA AATCATATGA ATAGAGATAG CAATATATAT CTNACCCATT TGGAAATGCA CAGAGATTCA
 GGAGTGTTCA CATAGAAACA GAAGATCATT GGCTTTTGTG CATTCCCAAC GCCAGNAATC TGTTCCTT GACTCTTTT
 GATCTGTGTT TCTGAATGTA TTGATATACT GCGCTACTG GGTGTGAGG

SEQ ID NO:1606: (Length of Sequence = 290 Nucleotides)

CTCACTTGGG TACTACAGTG TGAAGCTGA GTGCATATGG TATATTINAT TCATTTTGT AAAGCGTTCT GTTTGTGTT
 TACTAATTGG GATGTCATAG TACTTGGCTG CCGGGTTTGT TTGTTTTGG GGAAATTTG AAAAGTGGAG TTGATATTAA
 AAATAAATGT GTATGTGTGT ACATATATAT ACACACACAT ACACATATAT TATGCATGTG GTGAAAAGAA TTGGCTAGAT
 AGGGGATTTT CCTGAACACT GCAAAAATAG AACGTAGCAA AATGGCTTCA

SEQ ID NO:1607: (Length of Sequence = 365 Nucleotides)

GCTCCACTGA CCAGCTGTC CCTGTCTCTC CTCTCTCTG AGCCTCCCTC TTCCCTGAGA CACAATAATA TTAAATTTG
 GCCAATCAAT AACTCAACAA TGGTGTCTAA TAATTGTTCA GGTGCGAGGA AGAGGCATAC ATCTCTCACT TTAAATCAAA
 AGCTAGAAAT GATTAAGCTT AGTGAGGAAG GCATGTCAA AGCCGAGACA GACCAAAAGC TAGGCCTTTT GTGCCAGTTA
 GCTAAGATGT GACTATAAAG AAAAGCTGTC GAGGGAAAT TAGAATGGTA CTCCAGGGGA ACACACAATG ATAAGGAAGC
 AAACAGCCTT ACTACTNGGA TATGGGGAAA AGTTTTTCAGC TTTGG

SEQ ID NO:1608: (Length of Sequence = 294 Nucleotides)

CTCAGGAAGC CTCTCTTCT TCACCTACCA TTACTAATCT TCCAAGCATA GAAATCCCTG GGAATTGCGA GAATAACTCC
 CACTATTTTA AAATTATAT TCAGATTTGT TTGTTTTCAT AAGACACATC AAACAGGCCT ATACAAAAGG TTTAGGAAAA
 GAAAACAATG GTGAGTCCCG GCCCTCTTGG AATTCATGAG CACCTCATGC AAGTNTAGGA AGGCACGCTG GATCGTCTAT
 CTGATTCCAA AGCTGTCTT TGCCATCTCA TCCCTTGNC TGCCCCCAA CCT

SEQ ID NO:1609: (Length of Sequence = 393 Nucleotides)

CAAAAGCTAA CTCTTAATAA GAAGATGAGG AAATAAAATC AGTTCAAAG GGAGGAATAT GCATTCCAG AATTAAAGGA
 CCCCAGGTCC AGTTTGAGGA GGACTCTTG CCAGATACAA GCCCTTGTA TAATNCTCAA GAGGGAGGAG ACCTTATTIN
 CTCCTINGAG GTGTCTAGTA TGAAANTGTC TTATTTTGAA ATGTGATTCT AGCCATTATC AGGNGCAACT GCAGATAATT
 CCCATTTACA GAGGAATGCT GCTAACAGGT GTGGNGGGA GCAGCGACAN CGNAAAATC TGCTGTGATA GGTCACGTTT
 ATGTTGGTTT TCTTTGAAAA TCAAGGGGTA GAAAATTTCA TGCCTCTAGA GGAGAGAGAG GAAACACATG AGG

SEQ ID NO:1610: (Length of Sequence = 464 Nucleotides)

TGCTGTATT TATTAAATG CCTTTACTAC TTTTAGATGG CCATACGTTT TCAAAAGCAA AGACCTAGTA AGCCATTGT
 GTTCATTGTC TAAGCTATCT TAGGTACAGG TCCAGATTAT AATGTTACC TGCTAATCAG AGAGCAAAT TTTAAATTAA
 TCACTTGTA ATCCACATTA AAAGAAAAAG AAACCTAGAA AAACACATAA ATTTCTTTTG TGATCCCACT ATTCAGGAAA
 ATCCATTGAA AAAGCAGATG ACTTATCCGT GTTAAATTTT TAAAGNCCCT ATTTAAACTG TCATGTAAAT TCTNATTTAT
 CTAATTTTTT AAAACACATA TAGNNTTTTA CTCTCCAGTT CCATAANTGN CTCANITCTG GTGANGGTCA TTACAACAGN
 CATTACGNGG GCATATCGGN NTAAANGGC CNTGCGGTCC TGNATCNGAG GNGGGTTAA GGTC

SEQ ID NO:1611: (Length of Sequence = 465 Nucleotides)

ATAATTTAAA GAAAAGAGAA TTCTACAATG TAAACCCTT TAATATAAGC TGTTTTAATA ATTGGAAAAC AGAATGANTA
 NTGTTTTINT TTGTCATGCC CAATTATTT ANCAAGTTT TATTAAATAC TTGCTACATG GTAGGCACAG CTGTAGGTGT

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TGGAGATATA GAGGTAAACA AGTCTGACAT GATCTATGCT ACCACGGAGT TCTTATTTTC AAAGTGAAG GTAGAAAATA
 AATAAAAATG ANCTAGAAGA GCAAAGTGCC TCTGAATGAG CATGCAGANG CATGTTTTCA AAATGCTGT GNGTGGGATA
 AATAGATCAG CAACACACCA GGCCATGCAA TTINGCAGCA AATCACTTCT GCAGTCTAGC TGCTGTTTTT CCTACTCTGG
 AATCATACTC CCCCCTTCGG TCATCTNIGC CAGTTTCNCT GNGCTTCACC CTACCCTCCN TTTTN

SEQ ID NO:1612: (Length of Sequence = 458 Nucleotides)

ATGAAATTGA ACAACCTAA AGAGAAATGT TCTTACCGTT CCACAGGAAC CAGCTTCTTC CACTGGGCCA CTAGGTCCCT
 GGCAAAGCTT CCAACATGCT CGTGTTCG CAAGCTATTT ACTGTTTTCC CAACCCAGT CTCCTAAAAT TTGACAAAGT
 AATTGTTAGA GGGGTCTGGA ACTAGGCTAA CGTTTTCTA AAGAAATAAG GCTTCTACT TTGAGAACT CAACAAGCAA
 TACTTCCTTC CTACAACATA CCTGCAAT CTTAACAATA AATTACTTTG TGCTATGNC CCAAATCTCT AATGACACAC
 AGTAGCAAAG NGTACCAAGT TCAGAACTTT AATAACAGNG GINATTAGGG CAGGTGTTAG GGCCTAGNT AAGNGCTTTG
 CATCAGTTCT GGATCAGNCT TTTAAATAAC CCCTTAAGNG GGGNTNAGNC CCTTTTTT

SEQ ID NO:1613: (Length of Sequence = 322 Nucleotides)

ATGTGGAGAT TTGTTGTGGG CTAGGGCAGT CCAGAGGAGA GATATGTGGC AGGACAAGTC TCTACCCTAT ACAAGTNCCT
 CCGGCAAGCC CTCAGCATAT GACATAGGCC CAGAGAAGGA TGCAAAGAAT TCTGGTCATA AATTGTTTTT AAATATCAAA
 TAAATCATAT GTGCACATGC ACAACATGC CTTCACTACT GAGTAAACC AGACTCACCT TCAAATATAT CAACAGTTTT
 NTCAAGCGCC GTTAAAAATC AGGCATCGGA CCTCTGGNIN CGAGAGCTGG TTTNATGGGG AAGTTAGATC AACCCGTCAT
 CT

SEQ ID NO:1614: (Length of Sequence = 280 Nucleotides)

AGTATCAAGG GATAAAATAT ATTTTAAATT TTGTATTTCA CTTGAAAATT GTAAGGNCCA TTTTATAATG TATTGCTTGC
 AAAATAAGTC ATGGAAGCCC TGAAAAATTA GTCAATTAC TAATCAAAGA AACATATATT AAAGACCTAC TATGCATGAG
 GCACCATGCT AATTGCTTTG AAGAAGACAA AGTTGAATTA GACAGGNTC CCGTTTACAA GNTATTTACA ATGCAAAGGG
 GGATACAAGA CATATAAAG GCTATGGAAC TGCCCTTCGG

SEQ ID NO:1615: (Length of Sequence = 393 Nucleotides)

GCGTGGTGGT GCGTGCTGT AAATCCAGC TACTACGGAG TCTGAGGCAG GAAATCCCT TGAACCAGGG AGTCGGAGGT
 TGCAGTGAGC CGAGAGCAG CCACTNCACT CCGCCTAGC GACAGANTGA GACTCCGTCT CAAAACAAA CAAAACAAA
 CAAAAACCA AAAACACTGG GAGTCCAGT TTGTAGGAAA TCATTAGAT TTTATTTATTT GAGCTCCAGA ACGAGTGAGG
 ATGACCTGAT AATTTTGGTT TGGCTCAGGT TGTAAATGTT TCTGTTTTG CTCGATGACT ACTAGAACAG TTCTCAAACT
 GTGTGGTGGG TAAGAATCAC CTGGGACTT TGACCAAGTN ACATGTCTAC AACACCGGC CCCTACAGGC TCT

SEQ ID NO:1616: (Length of Sequence = 353 Nucleotides)

CCACCCAGC CTCCTTGGAG CTATCCCTTT CTATCCCCCT CCATCCAGCC CCTGGCCACC ACCATTATAT CTATCTGGA
 ATTCCACAG GAAAAGCAGG CACTTTATTA ATCAGCGAGG GATTACGGC GAAATGAGAC TGTTCTGAG TNATGGCGTN
 CCGGTTGCT TGCCGGTGT GGCAGCGNC GGGAGAGCCC GGGCAGAGC AGAGGTGCTC ATCAGCACTG TAGGCCCGGA
 AGATTGTINTG GTNCCGTTC TGACCGGNC TAAGTCCCT GTCTGCAGC TGGATAGCG CANCTANTIN TTCTCCACTA
 GTGCAATCTG CCGATATTT TTTTTGTTA TCT

SEQ ID NO:1617: (Length of Sequence = 227 Nucleotides)

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TTTCTTCCAT GCAACANICT GNAGACTTAA GTGGCTTTCT NCTGTACTNC CATAGAACCC ACCCAGTACA TACCTCCAGT
 GNNGCACTGA TTTTATGCTA TACATATGAC TGTGTGTTCA TCTCCTCCAC CAGACTGTGA GTCCCATTTG AGTAGGAACT
 AAATTTTNTT CAACACTCTG TCTTCATCAC CTCGTGTAGT ATCTTGTTACA GAGTAGATAA TGATTAA

SEQ ID NO:1618: (Length of Sequence = 362 Nucleotides)

GGAAGGTTTT TAATGCATGA NGTATACTTG TNATCCTGGA GGTGGAAAA GATTTCAGTAA AGATAAAGTT TGGCAAAAAT
 GATTCTCTCC CTAGGATTTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT
 CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCCTCT CAGCCCTTGC AACTGTTTCC TATGACTTTG GACTTGGCCA
 TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAATGTGCT TTAAGTGCAT GTAATTAGGT CAGTCCCTCC CTCCTTGAGC
 TTCAACTCTC CACCATGAGG ACAACATTGC CCTCCTTCCT GG

SEQ ID NO:1619: (Length of Sequence = 344 Nucleotides)

GCAACCTCAT CCCAGGTTCA AGTATATCTC CTGCCTCANC CTCCTGAGTA GCTGGGATTA CTGGCGCACC ACCACACCCG
 GCTAATTTTG TATTTTTAGT AGAGACAGGG TTTCGCCATG TTGGCCAGGC TGGTCTTGAA CTCCTGACCT CAGGTGATCC
 ACCCACCTCA GCCTTCCAAA GTGCTGGGAT TCAGGCGATG AGCTACTGIN TCGGCCCAA TCTTTCTTAA GTGTGTCTG
 GCCTTTGGCA GAAATAGCCA CAAAGNCAGG GTAGGAACGT TTTACTCTC AAGTGATGAT GGCATCCGAT AANCTTTTAG
 AGGGAGGTTT TTAATGCA ACGT

SEQ ID NO:1620: (Length of Sequence = 379 Nucleotides)

GCCAGCCGAA GCTCCTCAGG CTCCCACCT CTACAAGCTC CTCTGCTCC AGCCCACTC ACCAGGCCCG AGTCCCACC
 TAGCACCTC CTGGGAATN ATCTCCCTT GGTGGCTCT TCTACTTAT TCAGCCTCA ATGTATCTC CACTGANAGG
 CCTTCTGTA CTGCTGAGC TTGATTCCT CCCCTCCCA GTACATTAC TCCGTGTAT GGTACCCATC CCTGTCTCT
 TAGCTGTGT TTGTCTGTAT TGGCTCTCC ACTAGACTGT AAGCTGCATG AGGGCAGGG ATGTCTGTTT AATNCCAGTT
 GCTCAGGATA GTGTATGGCT CGTGATAGAT GCCTAGNACA TTTTAAATG GGGACGGAT

SEQ ID NO:1621: (Length of Sequence = 283 Nucleotides)

GATTTGGGG CTGGGGAGG CAGAGAATCT CTGGGAGTC TTGGGTGGG CTGGTGCAAT CTGTTTCTC TTGATCTCAA
 AGGACAATGT GGATTNGGG ACCAAAGTC AGGGACACAT CCCCTTAGAG GACCTGAGTT TNGGAGAGTG GTGAGTGAA
 GGGAGGAGCA GCAAGAAGCA GCCTGTTTC ACTCAGCTTA ATTCTCTTC CCAGATAAG CAAGCCAGTC ATGGAATCTT
 GCTGCAGGAC CTCCCTCTAC TACTTCTGT CCTAAAAATA GGG

SEQ ID NO:1622: (Length of Sequence = 356 Nucleotides)

TTAATTTTAA AGCAGATAAT ATTTCAAATA TTTTCTTGA AATAGACCAT TTGTCTGCC TTGAAGTATG TTAGTACATT
 TTAAGAAAGT CAGTGGGTTA AGGAGTCAGT GCTGTAGTA TTCATGCTTA AAACACTTCC CTCTACCTA CCCTAATAAA
 TGAGGGGCTC AAGAGAAATA TTTCTAATTC TCTAGCGACA TGGCTAATTT TTTTTTTAA TGTATTTTGT TATTTTGTAGT
 ACAGATGGAG TTTCACCATG TTGGTCAGGC TGGTCTCAA CTCCTGAGCT CAAGTGATCT GCCTACCTCA GGCTCCTGAG
 TCACTGAGAC TGTAGTTGTG TGCCACCATG CCAGGT

SEQ ID NO:1623: (Length of Sequence = 361 Nucleotides)

TTTGAGACAG AGTCTCGCTC TTTCGCCAG GCTGGACTGC AGTGGCACTA TCTCAGCTCA CTGCAAGCTC CACCTCCCGG
 GTTCACGCCA TTCTCTGCC TCAGCCTCCC GAGTAGCTGG GACTACAGGC GCCCGCCACC ACGCCCTGNT AATTTTTTGT
 ATTTTTAGTA GAGACGGGGT TTNACCATGT TAGCCAGGAT GGTCTCGATC TCCTGACCTC GTTGATCCGC CTGCCTCGGN

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CTCCCAAAGN GTTGGGATTA CAGNGTGAG CANCGTGCC CAGCCGTA NAA GTTAAGATAT TTTAAAAANA TCTCTGCAAG
TTGAGGAAGT NTTTCAGGAC TCTTCTCTGC TTAGTCTCAC T

SEQ ID NO:1624: (Length of Sequence = 350 Nucleotides)

CTTTGTGAGC TTTTGTGACCT GCGGGATCCG AGCCAGATTG ACAACAATGA GCCCTACATG AAGATCCCTT GCAATGACTC
TAAAATCACC AGTGTCTGTTT GGGGACCCCT GGGGGAGTGC ATCATCGCTG GCCATGAGAG TGGAGAGCTC AACCAGTATA
GTGCCAAGTC TGGAGAGGTG TTGGTGAATG TTAAGGAGCA CTCCCGGCAG ATCAACGACA TCCAGTTATC CAGGGACATG
ACCATGTTTN TGACCGCGTC CAAGGACAAC ACAGCCAAGC TTTTGTGACTC CACAACCTT GAACATCAGA AGACTTTCCG
GACAGAACGT CCTGTCAACT CAGCTGCCCT

SEQ ID NO:1625: (Length of Sequence = 333 Nucleotides)

GTCCTCTGTG AGACAAAGAA ATTATAAAGA TGGCAGAAAT TATTAGCGAC GTTCTACCTC TATAATTAC GTCCTATGAA
TCAGTACTTC ATTTCTTTTT TATGGATGAA TTAATATTCC ACTGTACAAA TATACCACAT CTGTGTTTTT CATTCGTCTA
GGTTAAAAA TTTTATTTTT TATTTTATT TTTTGTAGA GACGGGATCT CACTGTGTG CCCAGGCTGG TCTTGACCTC
CTGGGCTCAA GTGATCCTCC CACCGTGGCA GTCCAAAGTG GGTAAACTGT ACGCTGGTCT GAAAGACCTT GCTGAAGAGA
GAAGAGGCAA GCT

SEQ ID NO:1626: (Length of Sequence = 314 Nucleotides)

GACTGTCCGT GGACACTGGT TTTTAAGCCC AAGAACTGAA TATACAGTAG CAGTGCAGAC TGCTTCAAAA CAAGTTGATG
GTGATTATGT TGTGTCTGAA TGGAGTGAAA TTATAGAATT CTGCACCGCA GACTATTC AAGTTCATCT AACACAATTG
TTGGAGAAGG CTGAAGTGAT TNCAGGACGC ATGCTTAAGT TTTCTGTTTT TTATCGTAAT CAGCACAAAG NATATTTTGA
CTATGTTCCG TAAGNTTCAA AAATATATAG TGATTGTTT TACTAAATAT AGTTTCAAAT TCTAGGCTCA GGGT

SEQ ID NO:1627: (Length of Sequence = 375 Nucleotides)

CCCTGGGCAC CTGGTACCTG GGGACCTACA AGGTGGTGAG GGAAGGGTAC GAGTACATTC CTINTCCCTC TGACCTGGGC
GCTAGAAGGG CAAAGAACCC GAGCCTGCCA GCTTGGCCTC CTCCACAGC CTCCCTCGGA GGCATGCCAT GCCAAGCACT
CTTCTGTCT CTGTTTCATGA ATAAAAGAGA TGGATGGGCT TATTCTTATA GAGAAGTGAA TTTCACITAC TCCCTGGCC
CGAAACTAG ACCAAATGAG GAAGTGTGTT AGCTCATCAA ACTGTTATAT TTATTTTCAA CAATGAAAAC AACACAACAA
AGTGGAGTCA ATCCACTAAT TTTTAAAT CTACACAAT TGTTGCACA ACAAT

SEQ ID NO:1628: (Length of Sequence = 434 Nucleotides)

TGCACAGGCA CACCTCCACT CTTTATATCA TTTCTCCAT CTTCATTTC CCATCTGTAC CTCCAAAATT TTGCTATGAA
TCTAATTCAT CTGTCTCTC TCTCTCAT GGGTGCTTT GCTCTGCCA GTCTTTCTC TCCTGCCCCA CCCAACTTC
ATGAATAGT CTTTCTCCC AGGAGCTCTG ATTTCTAGAC TGCTTTGAAA ATGCTGTATT CATTTTGCTA ACTTAGTATT
TGGGTACCT GCTCTTTGGC TGTTCTTTTT CTGGAGCCCT TCTCAGTCAA GTCTGCGGA TGTCTTCTT TACCTACCCC
TCAGTTTCC TTAACACGNG NACACAACCTC TGGAGAGTGT TAAGNATAAT GTTACTTGGT AATGTGTATT TATTGAGGAT
TGTTGTGCTA AGAATGNGTA GGTAAATA GGGG

SEQ ID NO:1629: (Length of Sequence = 341 Nucleotides)

CCTCAAAGCT GCAGGAGGT GGGGGTGGCC GGCAGACAGG GTGGGGTCCG CATCCGGTAC CAGTGACAGC AGCCTCTCCT
CTCCACGGT GTGTCTGTT TGGGGCTGTG GCCAAAGTGT TTGCCCGCC CTGACTGTN TCCTTCCGA GCTGCCGAGG
ACTGCAGAGA GGGCCTGGCT TGCCCCCTCT AGGAGCAGCT GGGNNGTGT CTGCTGCA TCCCCCTCA ATGGTTGAAA

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ATAATGATTC CACTGTGCAT GAACACCATG AAGGTATCTT GGCAGCCAGA GTCACCTCTG TTCCCGAAGT GGGAAACCTN
GGGAGGGTCC TCAAAACCCC T

SEQ ID NO:1630: (Length of Sequence = 380 Nucleotides)

CATAAAACCA TCCTACGATG TGCTGCTGCT GCTGCTGCTG CTAGTGCTCC TGCTGCAGGC CGGCCTCAAC ACGGGCACCG
CCATCCAGTG CGTGCCCTTC AAGGTCAGTG CAAGGCTGCA GGGTGCATCC TGGGACACCC AGAACGGCCC GCAGGAGCGC
CTGGCTGGGG AGGTGGCCAG GAGCCCCCTG AAGGAGTTCT ACAAGGAGAA AGCCTGGAGA GCCGTCTGTTG TGCAAATGGC
CCAGTGACCC CCAGACGCGG AAACCGGGTG GCAGCGCCAG CCTGGGCCCA GGCTATGGAAA CGGACAACCC CTAATCGCCT
TAGCTACTGC TTCTAACAAC TCTTTTCCCT TGTGTTAAGG GAAACCAGGT TCAAGGGGGG

SEQ ID NO:1631: (Length of Sequence = 383 Nucleotides)

AGAGGATTTA TTTGGACAGG GCTGTGCTGA GAGTCCCACC CTCACCCAC AATGGGCGGG GGCCTGGCA TCGAACACCA
AGCTGAGTGA GAAGGCTCC TCCAGGCCTC GCAGGGAGCT TGCTGGCTTC TCCTGGCTCA CAGCAGACTG GGCCCGACTC
CCATCGGAGG AAGGCCAGCA TCCTAGGGCA GCCAGTGGAG GGCTGGCAGA GGGCTGTGCC TNGAAGGTCA CTGTGCTATC
TTCCAACCAC ACTGTGTGAG TCTCAGATAC CATATGTGGA ATCTGCATCA GGAAGGTCAA CTGAGGTCA TTTTAAAGG
GATTCTTCCG GNAAAAGGAG CNGCCATCG GCGCNCCTTA NCCGGCGTTT CGGTTCATCC CGA

SEQ ID NO:1632: (Length of Sequence = 424 Nucleotides)

GGGAAGTGAG CTCCTGAACC AACTCTGAAG GAGACACCCA CTGCTAAGC CAGTCTCACT CTAGGACACC TGCCTAGCGA
CCAGCAAACC TGGATGAAA GGGCAAGTTC CTCAGTGCCC CCTCTGCATC AAAGGGAGTG GCTCTGCCCT CTCTAGTCTC
TGACTACCTG CTTAGTGATT TTTGCTTCTG TGCTCCAGA CCCAAGAAAA CCACGTCTCT TTTCTTCTT CATCGACTCA
TCCCCTTCTT ACCCTATATT GTCTCTCCA CTCTCTGCTT CTGCTGGCCA GGCTTAAATC TGGGCCACCA GCCTTCTGG
GACATACCTA TTTCCGCAAC TGAACCTTCC CAACCCCTAG GAAACAAAG GTATTTTACA AGGCCTCTGG ACCTTGACCC
AAAGAGGCAT GNACCATAAT TACT

SEQ ID NO:1633: (Length of Sequence = 417 Nucleotides)

TTTTTCTAC AGCATCTTT TATGTCTTT ACCATTACTT TAATGCATTT TAAATTTAT CTACATTAAT TGGGAACAT
TTGCATTTT TTCATCTCT CTCTCTTTT CTTTNCITTT TTTTGGATTT GTCTTGGCCA GAGAGGTTCT CCAACACCCG
GGTGGACTTG GAATTTTAA TCAGCTGCAA TCTGAAGACT TGCTTTTACT GTGGAATAGG TGACATTCTT TTAGGACCTC
AGAAGCTCAA GTAGTTAAT GCCAAGTCTT TCCAGAGCCT CACTCTCTTT TATTTTAA ATTAGAATTG TGATTTATTG
AAGNCTTACC ATGGGGTCA TATAATTNT NAATNGANCA GCTTTATGA GGTATAATTC AATACCCCTT TAAAGNATGT
AACCGTGGG TTTAGAC

SEQ ID NO:1634: (Length of Sequence = 423 Nucleotides)

AATATCCCAA ATGTGCAATG CATCACTGA GACAGAAGGC AGAAAGCATC AAGCTCTCTG TTTATCCCAA TTCAATGACA
ACCAGAACTT ATTTTTTTTG AGATGGGGTC TCGTCTGTG GCCAGGCTG GAGTGCAGTG GGGCATTCTT GGCTCATCGC
AGCCTCCAAC TCTAGTCTC AAGCAACCTT CCTACGTCAG TGCTCTGAGT AGCTGGAACT ACAGGCATGC ACCACCACAC
TTGGCTCAAT TTTAAAAAAT TCTTGTAGA GACAGGATCT TGCTACATTG CCCAGGCTTG AGGTGCCGTG GTGCATTAC
AGCTCACCGC AGCTCAAACT CTTTGGTCTC AAGCGATCCT CCTGNTCTAG CTTCTGGGT GGCTGGGCCT CAGGCATACA
CCACCATGTC TTGGTCAATT TCT

SEQ ID NO:1635: (Length of Sequence = 384 Nucleotides)

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CAAAACTCAC TTTGACCCCA TTAAGAGGCA AGCCTGGCAC ATCTATCCCT GGGCCTTAG AAAGCCATTT GCCTCAAATG
GCTATAGGGT TGTGGGGTGG AGGGAGGAAG GGCTGGGAGG GAGTNGGGAG GAATGCTAG CTGTAGTGTG ACACATTGTA
GTGTTTGCCA GGAAATGAGC CAGACATGGT GGTGTATGCC TGTAGTCCCA GCCACCCAGA AGGCTGAGGC AGGAGGATCG
CTTGAGACCA AGAGTTTGAG CCTGCGGTNA GCTGTTAATG ACCACGGCAC TCAAGCCTGG GCAATGTAGC AAGATCCTGT
TNTCTACAAG AAATTTTTTA AAAATTGAGC CAAGTTTGGG TGGTGCATGC CTGTAGTCC ACTA

SEQ ID NO:1636: (Length of Sequence = 362 Nucleotides)

CAAAATGACT GACTACAGCA ATGCCCTCCG TGTGCCCCAC ACATCATGAG CACCGCAAGA GACAAAAGAT TAACTATGAA
ATATAGTAAT CTAAGCAAGC CCACACATAC ATATTTTTGG GGATTTCCCA CCATCCTGAA TAGTATCACT GCAGTTGACA
CAACTTCCAG GGAAGTGCAG AGTAAGTGCT TAATATTATC CACGAGAAAG CAAAACATAA TATTAGTGTG CACATTTCTG
AATGAGAAAC TAATTGCTTC ATTGATTTCA ACAATGTAGT GGNAGNAAAC TATTTTCAGAT CTCTACAATG CCTAAATGCA
TTCTATTTAA ACTCAAGGTA CTATTTTCAT TTTTACCATA CT

SEQ ID NO:1637: (Length of Sequence = 205 Nucleotides)

GGGCCCCGAC GAGGCTCAGA CCTCTTNTAC GNCGACTACT ACGAGGACGG CGAGGTGGAG GAGGAGGCCG ACAGCTGCTT
CGGGGACGAT GAGGATNACT CTGGCACGGA GGAGTCTTNA CACCACCAGA ATAAACTTGC CGAGTTTANC TCACTAGGGC
CGGACCCGTG GCTCCTTAGA CGACAGACTA CCTCACGGAG GTTTT

SEQ ID NO:1638: (Length of Sequence = 253 Nucleotides)

CCTCAGGCT CACCGTCTCG CTCTCTGCAC CAGCCTTTCC AGAGCATNCC AGTNCCTATG GCTTCATCTG TTAAGTGTG
ATCATTTCAG TCCTGATTTT TAGACCTAAA TGGTTTCCTT AACGCCATTC TAACTGCCIG TGACTCATIT TCACTTACAG
TGTTTATTGT AACGCCAAAC CAACAAATCA CAGGTGCTTG CTCTGTCCA TAAATCTCCC CAGTCTAACT TTTTGTCAAT
CAACATGRCT CGT

SEQ ID NO:1639: (Length of Sequence = 360 Nucleotides)

TGTGGCCAAG GACCCTATCG TCAATGTATG GTACTCTGTG AATGGTGAGA GGCTGGGCAC CTACATGGGC CATACCGGAG
CTGTGTGGTG TGTGGACGCT GACTGGGACA CCAAGCATGT CCTCACTGGC TCAGCTGACA ACAGCTGTNG TCTCTGGGAC
TGTGAACAG GAAAGCAGCT GGCCCTTCTC AAGACCAATT CGGCTGTCCG GACCTGCGGT TTINACTTTG GGGGCAACAT
CATCATGTTC TCCACGGACA AGCAGATGGG CTACCAGTGC TTTTGTGAGC TTTTPTTGAC CTGCGGGATC CGAGCCAGAT
TGACAACAAA TGAGCCCCIA CATGAAGATC CCTTGCAATG

SEQ ID NO:1640: (Length of Sequence = 321 Nucleotides)

GTGGGACGCC CTCTGCCCTG TCCTGAGAGC AATGTCTTCT CCATGGGGCA GCATNGGCC TGGATGGGCC TGAGCATAGC
AGACCACGTG GTCACATGTG CATGTGTGGA CATGTGTGCA TGTGTGGATA TGTATGCTCC TGAGTGTATC TGCATGTCTT
NCCTGCACAC ACAGTGTCTC CCTCCGATGC TGCCAGCCTG TGGTGGACTT CCTCTTCTGA CCCCCTTCTT GCCNCCGGNC
TGTTTTATCA GTGAAAGGAC TTAAGTAAGC AGATCTCCAG GTTCACCTIN TGGAACTCAG CTCAAGGTNA GCACAGCAGG
T

SEQ ID NO:1641: (Length of Sequence = 266 Nucleotides)

GGTGGTGCCA CTGTGCTGAT AGTTTTTCCC ATCTTAGTAG CCGNACCCAT AATTAATGCC TACTCACATC AAGTTAGCAC
CACTCAAATG TGGGCCATTC ACAGGCAGCC AGGGATCCTC TTGNCCGTG AGGTGGGGG CTINCATCAG AATGCAAATC

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TRCCGAGGCG TGAAGCACAA TTTAKTTCAA CTGCCATKTK TTCCTTCACA GTAAGRCCTT CTGGRGGAAG GAAGCAGTGT
GTTTGAGTTA TACCTTAGGC CAAGCT

SEQ ID NO:1642: (Length of Sequence = 295 Nucleotides)

AAAAGCCCCA GCCTCAGGAC CCCGGTCACA GGCACCCGGG GGTGGGGGTG ACCAGCAGCA GTTCAGAGGC AGGTGTGGGC
AATGTGGGCC TGAGTCTCCT NCCCACTCAC GTCACINCCC GCGGGGACAC AGCGGCATTT NTGGGGCACT NGGCATGCCG
GGTTCCTAAC CTCAATTATT CATTCTGCTC TCAGGCACCT CCTGACGAGA CCCTGGCCCA GGAGAGCTCG GCTCGGGGAC
AGAGGAATGA GACTCAGTGG GACGCAGAGN CCAACCCCAT CCCCACCCCT GGGCT

SEQ ID NO:1643: (Length of Sequence = 359 Nucleotides)

ATCATTGGTA GTTTAAACTT TTCATCTAAT ATTAGATTGC ATGCAGGATT TTATATCTAA TTACTCTGGC AGATGGCCTT
TAGAAAGTTC AAAAATAAAA TGCAGCAATT CATATTGGCA GATTACTAT TGAGACCAAT GCTTTCTTAA CTAAAAGGTT
TTGTTTAAAA TCGTTAGTTT AGGAAATCTG ATAAAGATTT TTGAATATCA GAGCGTTTAA AAGAGATTCT TACTTTACAT
CTGGCATATT TCTGTGTTA CATATTATAA TTCCATGGGA ACATGGCTGT CTGTAAACT ATGTATATGA TCCGGAAGAG
ACTCAAATTA AATTAAGTTT TAACAGCCAT CAAGTTCAT

SEQ ID NO:1644: (Length of Sequence = 293 Nucleotides)

TGAACCCGGG NGCGGASTT GCAGTCAGCC GAGATGGCAC CACTGCACTC CAGCCTGGGT GACAGAGCCA GACTCTGTCT
CAAGAAAAAA AAAAGAATTA AAAGATGTGA ACAAAGCAA GAAAGTGCTG TATGAACGAA ACGGAAATAT CAATGAAGAG
AAATAAAAT TATAAAATTC AGGAAATGAG ANGTACANTA NCAGNAAATT CACTGGAGAG ATTCAAAGC ATATCTGAGC
AGGTAAAAAA AGTAGTGAAC ATGAGATAGG TCAAGGGAAA AGTACTGAGT CTG

SEQ ID NO:1645: (Length of Sequence = 332 Nucleotides)

AAAAGCTGGA TATTAGGAAA TGTGAATATT AATTCTGAAT TTGTTACTGA CTCAGGATGA CCTTGCCATGA TGCATCCAAC
CTTCTTTTCT CTATATCAGA AAATAAAGA ATAAATGTAA CATCACATTC TTTTCTCCTT TGGGACAAAC AACTATGTAC
AATGAATAA AAATGAAATT GCATAAGTNG TGGATAGAAT ATGTTTGGGT TGGTTTGAACT TTAGCACACT GTTTAATAAT
TCAACATTTT TTATACCTGT GCAATAAATT TTTAAATGAT GTCTGAAATG CTTTGAAATC TTCAGAAACA GGTTTATAAA
TGGCATAAAA AA

SEQ ID NO:1646: (Length of Sequence = 210 Nucleotides)

GAAAGTNCTC CCAATCACTC TCTGCACAAT GAAGTGGCGG ATGACTCCCA GCTTGAAAAG GCAAATCTCA TAGAGCTGGA
AGATGACAGT CACAGCGGAA AGCGGTGGAA TCCACATAG CTTGAGTGGC CTGCAAGATC CAATTATAGC TCGGATGTCC
ATTTGTTTCA AAGACAAGAA AAGCCCTTCC GAATGCAGCT TTGTTAGCCA

SEQ ID NO:1647: (Length of Sequence = 246 Nucleotides)

TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAAA ACCATGCATT CCTAAGAAGT CCCCAGGTCA TGCTGCTGTT
GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA
CTNAGGAGTA GCTGAGAGGA AAATNAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCACAG GAGCAGACAG AGAAATGTGA
AGGGTT

SEQ ID NO:1648: (Length of Sequence = 338 Nucleotides)

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TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAAA ACCATGCATT CCTAAGAAGT CCCAGGTCA TGCTGCTGTT
GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA
CTGAGGAGTA GCTGAGAGGA AAATGAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCACAG GAGCAGACAG AGAAATGTGA
AGGGTGGGGT TTTATGINTG GGAAAGGGAC CCGAAGCCCA GGCTGAAGAG TTTTAACTTT GGGCCCAGAA ACTCAACCAT
CAATGGAAAC AGGGCAGT

SEQ ID NO:1649: (Length of Sequence = 275 Nucleotides)

GCACCTINAG GATGAGACC CGGAAGGCTT CAAAGGCTGT CGCAAGGAGG AAGAAGTGGG AGAAGTTCGG GAACTCAGAG
TTTGACCCCC CCGGACCCAA TGTGGCCACC ACCACTGTCA GTGACGATGT CTCTATGACG TTCATCACCA GCAAAGAGGA
CCTGAACTGC CAGGAGGAGG AGGACCCTAT GAACAACTC AAGGGCCAGA AGATCGTGTG CTGCCGCATC TNCAAGGGCG
ACCACITGGA CCACCCGNTG CCCCTACAAG GATAC

SEQ ID NO:1650: (Length of Sequence = 270 Nucleotides)

AAAAGCCAGA GGGATGAGAA TGAGAAAGTT AAAAGGGAGG TCAGGAAAGC CATCTTTTAG GAGAAATATA AATNGACAAT
SCTTTAAAAA AGGAGCTGCC ATCATATTAT ACCCTGACCC AGCTGGATAC GAACAAATTC AGCCTTGGCA ATGCAAGTCT
TACATCIATT TTATATAGAT TGATATAAAG AGAACTGGAA GCATTTTCAA GAGGGGTATG TATGTGTTTG TGTGTGTCG
GTAATTAATG AAAGAGAGGC TATGAATTT

SEQ ID NO:1651: (Length of Sequence = 372 Nucleotides)

TCTTGCTTTT TAATGTIATT TCTTAACACT AGAATTTTCT ATTTCAAGTT TTTGTACGTG GCCTTGCGTC TCCTTAGTAC
ATTTTATAGT CQCTGTAAAT TGATTCCATT TTTCTTGAAA TTGAATTCCT ATCTGACCTA ATTTCTTCCT TGAATCCTAC
ATCTCACITT CTCAATGGAC GCAGTGACGC AATGAAGCAT CCAGCAAAGC TTTTGTGTGT GATGTGTTAG GACGTCACCC
TGTTTTGTGT GAAGTGTCT CACAACACT TCTCTTTCTG CTTTCTCTCT TTCAATATGA CATGTGTTTT CTTTTCAAAT
GGATTAACTT TATGATCAT CCTCTGTC TCTAGCAA AGACGGGTGC TT

SEQ ID NO:1652: (Length of Sequence = 314 Nucleotides)

TTTCTGAGTA TGCTGCACTG GATTATTAGC ATGTTAAATA GTCAAAGGGA CTGGAATAAA CATCAGGAAG ATTTCAATAA
GTGGTGTAAG TAGAAAAAAA AGGTAAACA ATGAGCTGCA TGTGATAAG TATAAGACAC TGATCCAAGT GGTGGCTTCT
GAACCATGAT ATTACTTAAN CTAGAGTGTT AAGGTCAGCT TAAGTCAAAA TAAACAAAG CTTCCAAACC CTCATTTTAA
ACACAGTAGA TAATAGATGA NTCTGTATC TTGGGAGATA GTACAAGCCA AANGTACAG CTGTGTTAA ACCT

SEQ ID NO:1653: (Length of Sequence = 323 Nucleotides)

TAGATATGAT GGCTGGAGCT GCAATAGCTA ACTTGCAACT ATGAGGAAGT ATAGGACTTT GGTCTTAACA TTCTGAGCT
CCTGAATCAA TACTTTAACT ACCTCTATG AGACTTCTTG TCACATGAGA AAAATTAGC CCCAAATTAA ACCCCTGCCT
TTNACTGTAA CTCTCAATTG AGCATAATC CTAAATGNTT TAATCAATTC TACTCTACTC TGGCATGATT TTNAAGGCAT
TAACCATAAT TTCCTTCCAA TCTAAAAAGG GAACANTAC TTACTGGAGT ATCTAGTATA CATCAGATAC TGTGTATATA
GGC

SEQ ID NO:1654: (Length of Sequence = 352 Nucleotides)

ATCTTGGCCT GCAGGAACAT GGCAAGGGCG AGTGAAGCAG GTGCACGCAT TTTAGAAGAA TGGCATAAAG CCAAGGTAGA
AGCAATGACC CTGGACCTCG CTCTGCTCCG TAGCGTGACG CATTTTGCTG AAGCATTCAA GGCCAAGAAT GTGCTCTTC
ATGTGCTTGT GTGCAACGCA GCAACTTTTG CTCTACCCCTG GAGTCTCACC AAAGATGGCC TGGAGACCAC CTTCAAGTGT

374

AATCATCTGG GGCACCTCTA CCTGTGCCAG CTCCTCCAG GGATGTTTTG GTGCCGCTCA GCTCCTGCCC GTGTCATTGT
GGGTCTCCTC AGAGTCCCCA TCGATTACA GG

SEQ ID NO:1655: (Length of Sequence = 325 Nucleotides)

AGGGTAAATT GTGAGACTGT TTGTATATAT TTTTGTGTTA TAGTTTTTGT TGTGTGTTAT GTTGTATNT TTATTATATA
AATGATAGAT CTGTGGGTAG GTTCTGAGAA ATGAATAGCT TGTATTTCTT TTTTATGAA AGAAGAACAA AATGAAGTTC
AAGTGAAAG TATCTCCAGA AAGTTTAAACA TTTTCTTATT AACCAACTCA TTGATTGGCA TGTGAACTT GAGATATTTT
ATATAGCACT TTTTAAATGA GGATCTAGCT TCACINIATC ATACAACCAC ATTTAAATA GCCAGGTCCA TGGTCATTAT
AGGGG

SEQ ID NO:1656: (Length of Sequence = 285 Nucleotides)

GAGNNTTAAT AGAATAGATC AAAGCAGAAT GCAGTGTGTT CATGTCATAG GTTGACTTCT CCAGGAAACC GACCCCAAGT
GGAAGGTTTA CATGCAGGTG GTTTATTAGA GAGTGTGTT GGAAGAACA CCTGTAAGG AAGAAGGGAG CCTGGGAAGA
GCAENGNNAG AAGGTGAAC CTGATTCAT TGCAACAGAG TCCTAGGCTG AGTGCATGG ATNCTGTAGA GTTGGGGATG
GACCTTCAGA GATATTCCAA ATAGAGAAAG AATTCTGTT TACTC

SEQ ID NO:1657: (Length of Sequence = 385 Nucleotides)

GACTTGACTT TGCTTTTTTC CCCCCAAGTA GAACTAATGC TAGCTTCCAG CTGAAAGTA AAAGTCCAGT GTGGAGTGAA
TTTGTGTCT AATTATAAAC CTGTAACCAA AACTCAGACA TCTGGTACTG GTCTTTGCAT TGAGATTGGT CCCTGTAAAA
CCCCCTTTAA AAGCATATTG CATTTAGTAC AGAGCTCTT TTTGAAATG AGGCTGGAGA TGTGCATTTT TCACGGTGT
AACTGGTGT ATCTTATTAG CAAGGAGATT GGGGGTTTTG AGTGTGCG TGGGTGGGT TCAAATTTGC CAGGGGAACC
AGTGGGCAGG CTGCTAGCAA GGCAGTGAGG AAGCTCTTGG CAGCCAAATG GGTGCAATT CAGGG

SEQ ID NO:1658: (Length of Sequence = 338 Nucleotides)

GATCAGGACC TCTTCTCCT CCAACACTG CCAAGAGC CCGTGTGTA ACGTTTACCA GCACACTACT GGGCTGTTC
TCTACCACTT GATTGAAATG ATCCTTATGG AAGCACAAT GACTTCACTG TCACTAAATC CAAGGGACAA TTTTATGCT
CTATTTTCT TCAACTCTCC AGGATGTTG AGAGCTGATC TTCCCTCCC TCTTGAGCCT CCTCTCCTGC CTGGCTTTTA
GGGTCTCTG CTGACTTTTC TTCATTTCTA AACACATGTC CTCAGGGGT CCTCAGCCCT GCAAGGCCNA TGCAGTGGT
ACCACTCCT GTGGGCT

SEQ ID NO:1659: (Length of Sequence = 346 Nucleotides)

AGTATGTGAA GTCAATCACT TTTTATATGC AGATAATATG CGACTTATAA TGAAGGTCA CGTTTCAATA GCAAACAAA
AAGCTATAAG TAACAAAGAA TAACAAAAC ATAAATGTAT AGGCTCTACA TAAAGAAAAC TATAATTCCA TAAAGGATCT
AAAATAAAAC GNGTAAATGG AAAGACAAGA TGTGTGTGTA GATACGAAGA ATCCATGATT AAGTTAGAGG ATTCTTGGAT
GACAGTAGAG TAGAAAGCAC CAAGAATGAG TCTGTATACC CAGAGAACAC TTACGCTGGT AGGAATCTAT CTCATACAC
TATTATGGAG CTCTCAAAGT ATACTG

SEQ ID NO:1660: (Length of Sequence = 240 Nucleotides)

GATAGAATAG CCAGCCTTCC ACTTGAATGC ACTGCCATAT TGTCAAGCTG CATTCTTAA GCATCACTTC TTAGAGGCCT
CAAGCTTCTC GGGATGTTT GATGACTTAA AGGGGAAATG AACAGGTGC AATNATGCTT GTCAAGNTTC TTCTGTGAA
CCTCTATTTG GACAATTCAC ACAAAAAAG AAAGCAGCTC ATTTTCTAAT TCAGGATATT ATTCTTTTT AAAACTGGTA

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SEQ ID NO:1661: (Length of Sequence = 294 Nucleotides)

AGCACCTCCC CTGAGGGCCA GGCCTTGGAG AACCGGATGA AGCAGCTCTC CCTACAGTGC TCAAAGGGAA GAGATGGAAT
TATTGCTGAC ATAAAAATGG TGCAGATTGG CTGATTTCATC CTGGGCCCTG GCGGATATGC ATATCAACAT TTATACATGG
AACTGTGAGA ACATTKTGCC AATAATCAIT TAATATATGC CAAATCTTAC ACGKCTACTC TAAACTGCTC TAATGAAGTT
TCAGTGACCT TGAGGGCTAA AGATTINTCT TCTGGTGTA GAGCTCTTTG GGCT

SEQ ID NO:1662: (Length of Sequence = 291 Nucleotides)

GATTTTCATC AGGCAAATNA AAGTAACCAC AGAAACAATT CAGTAATACT ACTAAGAGAG ATTAACITCC CACTGGCCTT
GGAATAGCTA AGTGCAITGA TTTTKTGTA GTTGAGAGTT TTTTCTYTC ATGATATTT TACGTATKC TGGGGTAAAT
GTATTTTWA CATGCATTGA ATGTGTAATG ATCAAGTCAG GGTATTTGGG GCCTCCATCA CCTTGAGTGT TTATCATTC
TATGTGTTGT AACATTCCAA GCCCTCTCTT CTAGCTTTGG AATATATAGT G

SEQ ID NO:1663: (Length of Sequence = 345 Nucleotides)

GGCAGTGGGA CTCTCTGTGG ATAGACTGAT TCTTGTTTAG AAACAACAGC AAAAAGAAGA AGGCAGGAAA GAACTCCCC
GGCTCGGAGG AATGTCTCTG TGATCCCCAT TCTTGATGGA GGGAGTGAAG AGGGGCCCTG NCTTCGCCC CTGCTCTCT
GACAGAAACA GTAAGTNACA CCAGGACAGA AGGCAGGAGC CCGAGAACT CACGGCGCTC TGCATGGTCT CCAGCCNNNC
ACCGTCTCC AGCCACCCCT GGAGCGGCG TGGGGAGGCG GCAGAGGGGG CTTTTCGGAG GGCCCACTAT TNCCACACGT
CTTCTTTTNG ACACCCAGAA AACTT

SEQ ID NO:1664: (Length of Sequence = 334 Nucleotides)

GTAATAAGA AAGTGAAATA ATTCCTATAA TGTAAGGTTG ATAGAAGATA ATCATCAGGG TCAGAATTAA GAGGTCTGT
GGTTTAGGAA GCATAAAAT ATGTAACITTA TTGTTTATTT CACTCAGAAA ATAAAAGTAT TAATGAAAGG AGTTAGAGAT
GAACAGATTG ATACAAACTG TTCTATGGTT TACAGCTTAA AAAATAAAGG TACATTTAAT GCTATGCATT TTGAGAATAA
TGCTTTTAT GCINTTCTT TTACATATG TATCINTTTG TATTTAAGGT CAAAATAGAT TGACATTACT AATTACTTCA
CTATTAATAA TTAA

SEQ ID NO:1665: (Length of Sequence = 310 Nucleotides)

TGTACTNCTA TGAAGCATCC CTCCACATC AGATCAAAGA CATCTTAAAG CCAGAAATAA TGGAGGAGAT TGTGATGGAA
ACACGCCAGA GGCCTTTTGA ACAGGAGGGA TAAGGAGGTT CTCCAGAAGC ACGGGACTNT GGACCTTGCA GGAGTGAAGA
CTGTRATGTG TGGTCCCCAT ATGTGGCTCA GCAAAGACTC GAGAGATCAT CCCTTTGTCT GCATTGACGG CCCTGTGACG
GCCTCCAGCC CACAGGCCTG CTTTCTCTG TCCTAACACC AAGCCTGGGT GGCAGATGAA CAGTGCTTCC

SEQ ID NO:1666: (Length of Sequence = 352 Nucleotides)

TTTTTTTTTA CATACAAAGT TTGGATTTTT ATTGAAATCT TGTTAGGTAT CAAACAAATT CTGCTTTCTT CAGATAAAAA
TATCTCTCA GATGTCTCCA GATAACTGCT AAGTCTAAAT TGGTCTTCA ATGCTTATT TTATTGTCC TCGTGAATG
TTCAATACA GTTAAGATGT TCCAAAAGG ATTTTATCG TGTAAGGAG CGTACATGAC GACCTCTACC ACTGCCTCCA
CTAACAACT TTCTCTTGA GCTCCACTG CCGCTATTG CACTAGCCCA GGAAGGTCC AAGTCCCCCA CGACCTCTAG
AAGCACGGTT CCGAGGGACT TTGGCGGTAA CC

SEQ ID NO:1667: (Length of Sequence = 287 Nucleotides)

GACAAATATG CCGCTGCCCA CATTTGGTC CATCTTTTT TTAATTATGC TTCTCTTCT TGGACTGGAT AGCCAGGGAT
GTTTCANCTT CTCGCTGCTC AAGTACGTAC CCTGACCTA CAACAAAACA TACGTNTACC CCACTGGGC CATTTGGGCTG

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GGCTGGAGCC TGGCCCTTTN CTCCATGCTC TTNGNTCCCT TGGTCATCGT CATCCGGCCT CTGCCAGACT GAGGGGGCCG
 TTCTTTGTG AGAGTCAAGT ACCTGCTGAC CCCAAGGGAA CCCAACC

SEQ ID NO:1668: (Length of Sequence = 300 Nucleotides)

CCAGACAAAT ACCAAGTTTA TTTCACAAAC ACTAGGAAGA TGGGTTGAGG GTGGAGGTGG GGGACACAGG TGCGCANTGC
 ACAGAGTCAG CAGCAGCAGC CTGNTCCCG CACTGAGGAC TCGGCTGGA CTGCAGTGCC TCCAAATCAA CACGCAGCAA
 GAGGGGAGTN CAGNGAGGGC CCTNAACACC AAGCCTCTGA AAGGCTAAGG GACACAGCTC CATCTGTCCC AGGAAAACCA
 GCAATAAATA AAAGTNNGGC ACGGCCCCAC CCACACATAT CATCTAGTCA CCCATCTTCA

SEQ ID NO:1669: (Length of Sequence = 334 Nucleotides)

TTTTAATGAC AGATTTTCCT AAAAGAAACC ACTATAACAT CTGTCCAAGT ACTCCAGAGA AAACAAAAA TACATAAAGA
 TTTAAAGTCT ATTACTTTAA CAGCACATTG CCAAACACGG ACAACTAGGA TAAATGCCAA GAAACCTTAA AAAATAACTT
 TAAAGATGC AACGTTCAAG CCATTCAAAC GCGTAGGTTT CACAAACAAC AGGNNACAA GTCCAAGAGC AGTTCTACTT
 GTGCATGATG GTAACTCAGA CTGTACTTCA TCAAAGTICA TTCAGGTGTT TCATAGGCGT CTGAGCAGAG TTTTGTTTTT
 TTCTTTCCTT GCTT

SEQ ID NO:1670: (Length of Sequence = 287 Nucleotides)

GATAAAGAG AAACAGCGAA GTTTCAGAG AAAAAGTGA GGTCTTAATA ATTNTGGGC AACTTGACAG CAGAACAGGG
 TAAANTGAG TTAGCTACAA AGGCTCATCA GAAATGGCA ATAGATTCCA GAGAGATTTA ATAACACTT ACAAACTCTG
 CTATAGGTGA CAAATCTGAC CATGATAAAA GCACCGTAAA TGATATAGGT AACACTGNGC ATATGAAAAC TCAGACTGTG
 CACTAGATAA AAAGGAANCC CAGCATACAG TGTTACCACA TGTAAT

SEQ ID NO:1671: (Length of Sequence = 187 Nucleotides)

GATAAAGAG AAACAGCGAA GTTTCAGAG AAAAAGTGA GGTCTTAATA ATTTKGGGC AACTTGACAG CAGAACAGGG
 TAAANTRAG TTAGCTACAA AGGCTCATCA GAAATSGCA ATAGATTCCA GAGAGATTTA ATAACACTT ACAAACTCTG
 CTATAGGGTG GACAAATCTG GCCCATG

SEQ ID NO:1672: (Length of Sequence = 329 Nucleotides)

ACATCACAAC ATGTTTATT ATGTGAATTT TTTACAATAC AAACAAAAA TACAGAAATG CAATATATGA ATACAGCTAA
 ATGCAGAATG GTGACTTTTT TCTTTCAAG AGGCCATGAT TCCCATTTCT AGTAAAATAA AGAGACTGCA TATAGGTAGA
 AACAGGTTGG TCATTAGCTT CACAATTTTG CCTAGAAATG ATCTATAAAT GCATTTCCTC CCTGCTACT TACCCTAAAG
 TGTAATAAGG GAGTTAAAGG AAAGTTTCCT TGTTGGTTCC TACCATATGA AAGATGCTAT ATTCTATTTT AGCAGTGCCA
 ATATATGGG

SEQ ID NO:1673: (Length of Sequence = 386 Nucleotides)

CTCCCTACTG TGATTCTCAT CAAGCTGGAA GCGINGTGAG AAAGCACATC AGTTTCTTCC CTGGATATG AACCTGAGCT
 CTCGATGAG GTGGTTTAGA AGTGGCCCTG GGAGAAGCCC ACTTCTTGGT CACAAGATAC TGCAATCTCC TGGCAGATGA
 ACCAGCTGCT TCCAGCATCC TCTGTGTGGG TCCTACGCC TAGCTGCTCT ACGTGTGGC TGCAAGTGG CATCACATGG
 GGAAGTAGAA AAACCTCTGA TGCTGTCCC CACCGGCTT AATCAGATG AAGTCAGATT ATCTGGGNT GGGACCTAC
 CATCATTTTT TTAAAGAAT TGCAGGGGCC AGGGGTGGC GGGCTTCAGA GCTTCTTAGC AATTTT

SEQ ID NO:1674: (Length of Sequence = 377 Nucleotides)

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CTGAAATTTG GCAAGAAGGG GCAAAAACGT GACTATTAAT GATTGATAAG CACCAGTGAA GAAGTTCTAA CTTTATGAT
 GCTGCACAGA AACTGGTATA ACATGCCTTC AGTATACTAA CACTCATATG CTCAGTTTTG TTTTGTTTTG GCAGTTGACA
 AGAAGTTAAT TTGCTTTAGT AAAAATCCCT CATTCCAGCC TTTCTATATA AATAGCTCTT TCTTGCTGTT TTAATGTGGT
 GCACACTATA GCCTCAGAAA CCTGTTATTC CAGTGTAATC TGCAGTGTG TAACTAAAGT TACTGGCTTG GGTCTTATTT
 GCACAGTTTT TGCNCCTTGT TTGCTTCTTG CATCTGGATT AACTAGGAAT ATTTCTC

SEQ ID NO:1675: (Length of Sequence = 381 Nucleotides)

CAGAAGTCAA TCAGCTACGC ACCCAGTTCT CAAAGACCTC ACATGCTAGG GAAGGTGCGG AGGCAGAGTT GTGGTTCAGA
 AGCAGTTACA GGTCTCAAAG CAAGAACAGC AGCCAAAGCT TCCAGCCCT GACGCTGCCT CTGAATGGTA AACCAATGGC
 ATATGGTATC CACAGCTAGG CTTTGCTTTT TTCTGAGTGA AGGTAAAAGG CATTTGAAAA TAAACCAAAG TTTCACAGAC
 TATGTTTATG GAACAAACAT GGGCCATTTT CAGGGATATA AAAGTCGATG TTCTATGTAG GCCCCCATAT GAGTATTTAT
 CTACTTTTTA TTTACTTTAT TTTATGGAAT TTATTTGCA AGGGGCTTCA CTCGTTCGG A

SEQ ID NO:1675: (Length of Sequence = 404 Nucleotides)

CTGTGTGAT TGCTTGAGCC CATCACAGTT TAGCTCTCAC AGCTTTAATT TACTAGCCCA TGAGAAGTCA GCTTCAAAGA
 ACACCATTTT GACTCTCAA GAACATTATC AATGTACATG GATAGCTCC AACTTCATAA GGTGTTTCTC TCTACCTAGA
 GCAATTAACA TTAATTTGCA GAATAGTGTT TATTGAAAAC CTTTGTGTAT CTCCAACAAA GTAATAGTGT ATTGATTTCA
 TTCTACTAT CTCAACTGT ATCATTAGA GGAATTTCTT AGGNAAGTCT ATATGCAGTA AGCAAGTAAG ATCGCAGAAC
 ATCAAAGGGN GGAAGTAAAT CCCAAACTG GNTTTTACCT TCCTTTCCCT TAGGTGAGGG AAAGGAATTT ATGGTTTTAA
 AGCT

SEQ ID NO:1677: (Length of Sequence = 388 Nucleotides)

ATGGACAACT ATGAGCCAGG AGTCTACACA GAGAAGGTTT TGGGAAGCCAC TAAGCTGCTC TCCAACACAG TCATGCCACG
 TTTTACTGAG CAAGTAGAAG CAGCCGTGGA AGCCCTCAGC TCGGACCCTG CCCAGCCCAT GGATGAGAAT GAGTTTATCG
 ATGCTTCCCG CTTGGTATAT GATGGCATCC GGGACATCAG GAAAGCAGTG CTGATGATAA GGACCCCTGA GGAGTTNGAT
 GACTCTGACT TTGAGACAGA AGATTTTGAT GTCAGAAGCA GGACGAGCGT CCAGACAGAA GACGATCAAC TGATAGCTGG
 CCCAGAGTTG CCCCAGGCGA TCATGGCTCA AGCTTCCCA GGGAGCAAAA AAGCCGGAAG ATTTTCGG

SEQ ID NO:1678: (Length of Sequence = 428 Nucleotides)

TAACTGTGCA AATAATCCAT GAATATATTG TTTTATACA GCATTACAGA TAAGGCTTGC AGCTCTATAG ATCACCTCA
 TCCACTCCTT CACTCCATTG CTACACTTAA AAGCCTCACA TGCTCTCCTG TCCTCTCCAA AGGCAGCTGC TAGCATCAGC
 GCCCACAGTA GCCCTCTTTT GTTCCCTGTT TATAAACCAT ACATTTTCTA TGGCTACACA TACGTGTATT GTTTGATGCT
 TTCTAATAAA ATTGTATCAT AGTGGTACAC ATCTTTTACA CTTTCCINAT TACAGTCAAC ATTTGNGGA ATACAGAATG
 CAGCAGATCA AGGANCTTTT CTCAGTCTTT TCTAACATGN CCCCAAATAC AGCCTCACTA TGGGGTCCAT TTAGNGGCT
 CATTGGTTTT CACTCTCACA ACGGTGGC

SEQ ID NO:1679: (Length of Sequence = 256 Nucleotides)

GGTGTCCACA GCCTGCTGCC TGGCCTGGAG CAAATACCTT TGTTAAGTGC TCAGAGGGTA TGGCCCTCA AATCCACCTT
 GCAGCTCCCT GGCTGCAAT AACTCACTC CATCTTTTCA ACTCGCTCC TGGACCCCTG GTTAACACTT CACTGTAACT
 CCTCAGTTGT ACAAAGCAIT TTCATTTGAA TACAAAAGGC AACINGNCAC CANATGGGCA TCCTTGAGCC ATGGTAAACA
 CTGAATTTNA GGCTCA

SEQ ID NO:1680: (Length of Sequence = 438 Nucleotides)

TACCAGTAGT TCCITTCOCG CTTTATTTTT TAGCTGCTIT TTGGGTTTTA TACAATGAAC ATGTATTAAT TGTAGAAGAA
AACGATGTCA TCCITTTATGA TAAATCCAT TTCCATTTTA GCTTTTTTAA AAAAAACAAA AGCTGTGTG GACAGATGAA
CATCCAAGTA CTGGGCACAC CTCAGCCCT CCTCTTCCA CTGAAGGCCA TTGCCTATTC CTAGAAAGTT CTTTCCCAGG
TATGCAGCTT TCAGTTTCCA CTTCAGAGGC CACAGTGTCT GGGGGAACGG ACTGCCCCCA ATACTAAAGG GAGTCAAAT
CTCTTTAATT NCCGCACTTC CTCAGTACCA ACAAGGAAGT CCTTCTTTA GGGCCACTGG ATGGGAACCT NGGGACCCCC
CTTTTTTGAT TGGCAAGCAT TGGGNTCCT AGGGCCTT

SEQ ID NO:1681: (Length of Sequence = 370 Nucleotides)

GTCTGGGAAG GGTACAATGT CGTCCGCGCC TCGAGGGCCA TGATTGGACA CACCGACTCG GCTGAGGCTG CCCCAGGAAC
CATAAGGGGT GACTTCAGCG TCCACATCAG CAGGAATGTC ATCCACGCCA GCACTCCGT GGAGGGGGCC CAGCGGGAGA
TCCAGCTGTG GTTCCAGAGC AGTGAGCTGG TGAGCTGGGC AGACGGGGC CAGCACAGCA GCATCCACCC AGCCTGAGGC
TCAAGCTGCC CTTACCACCC CATCCCCAC GCAGGACCA CTACCTCCGT NAGCAAGAAC CCAAGCCCAC ATTNCAAACC
TTGCTTGTC CAAACCACTT ACTTCCCTGT TNAACTTTTG CCCCANCCCA

SEQ ID NO:1682: (Length of Sequence = 397 Nucleotides)

ATGTAATCCG CTGCACAAA CACACCTCA CCAACCACAT GGTTTTTAAG TTTGACTGCA CAAACACACT CAATGACCAG
ACCTTGGAAG ATGTINACAGT GCAGATGGAG CCCACTGAGG CCTATNAGGT GCTCTGTAC GTGCCTGCCC GGAGCCTGCC
CTACAACCAG CCCGGGACCT GCTACACACT GGTGGCACTG CCCAAGAAG ACCCCACAGC TGTGGCCTGC ACATTGAGCT
GCATGATGAA GTTCACTGTC AAGGACTGTG ATCCACCAC TGGGAGACT GATGACGGAG GCTATGAGGA TGAGTATGTN
CTGGGAAGAT CTTGGAAGTT TACTTGTAGC TTGTCACAT TCCAAAAGGT TCATGGAAAC TGAACCTCGA GCAGCCT

SEQ ID NO:1683: (Length of Sequence = 396 Nucleotides)

GGCTGCGCAG AGGAGCCGCT CTCGCCCGC CCACCTGGC TGGGAGCCCA CGAGGCTGCC GCATCCTGCC CTGGGAACAA
TGGGACTCGG CGCGGAGGT GCTTGGGCG CGCTGCTCT GGGGAGCTG CAGGTGCTAG CGCTGCTGGG GGCGCCCAT
GAAAGCGCAN CATGGCGGCA TCTGCAACA TAGAGAATTC TGGGCTTCCA CACAACCTCA GTGCTAACTC AACAGAGACT
CTCCAACATG TGCTTCTGA CCATACAAAT GAAACTTCCA ACAGTACTNT NAAACCACCA ACTTCANGIT GCCTCAGACT
CCAAGTNATA CAAACGGTCA CCACCATGNN AAACCTTACA AGCGGGCAIT TTAATINCA ACANCAACCA GGGGAT

SEQ ID NO:1684: (Length of Sequence = 417 Nucleotides)

ATCCAGGGGA GATGCATGTG GAAATGTGGT CCTCTGGGT CAGACCCCTG CACGGGACAT CTTGCCTTTN AGTGTGCAGA
GTACATGGGG AAGGGGCTGG GGGCACCCT GTGTACCTGG GCCAGTAAG GCATTTGCCG TGATTTCCAC AACGGGGTCA
AAAGCTGGCC TTCAGGGTGA CCTAACACCA CCTCATGCC TGCTATAGAC CTTCAAAAC GACTTCCACT GCTGAAGCCT
GTAGGCTCTG TTTAGAGACA AGAAGATGGC TGGTAATTTA AGCACCGATT TCCCAAGTGC CCACTCTCTT TTGTGCTCTG
TTGGCTTTTG GCCTAAAGCT TNNCCAGAG TTAGGGTGTG GGATGTCTGT GGTCTGTGAG ATGCCCTTTC CTTCCCCCT
CTGCTTCAAC CGTGGTT

SEQ ID NO:1685: (Length of Sequence = 429 Nucleotides)

GAGCCATGGA GAACTCTGAA AGGAAGAATC GCTGCTTINC TCAAGCAAAT CGGTTCTTG ATGTCTTTTG GTTCTCCTTG
CCTGCNCTG ATGCTTGNC CCTTTAATT GATCAGAGTG CTCTAGAATA ATGGATGGTC TTGGATGATG GATAAATAGG
GACAGGGACA GTTAAATTGG GAGCCTTTCT TACAACCTIN ATGGGATTTT CCCCCCAAG TTCTCTCTC CACTGAAATG
CCACACTAAT GCTTGTGGG ATTCATGAGG TGGCCAGACC AATGTGTGT TTTGTGTG TTTTTTTTTT AAGCTTCCCT

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TGAGAGAATA AATGGGTAAT GGGAGGAGAA CTATTTTAAAC AAGGGTCCTG GGTTCCTCTT TGCAAACACA GTAGGCTTAA
ACTTTGCCTG CTTTTTAAAA TGGCATTIT

SEQ ID NO:1686: (Length of Sequence = 445 Nucleotides)

TGTCCTCATA ATATAACAAC ACTAATACAC TAATAGTAAG ATTAAGTTAG GCAGTCTTCT ACCAAATGTG TAATGGAGAT
TGCTCAAAA TTGTGTCCAC ATAATCCACG CTCATCTTGC AAAGCGCTAT TTCAGGCACT TTTTTTTGAG AAAGAGTCTC
ATTCTGTGCG CCAGGCTGGA GTGCAGTGGC GCAATCTTGG CTCACAGTAA CCTCTGCCTC CCGGGTTCAA GCGATTCCCC
CGCCTCAGCC TCCCGACTAG CTGGGACCAC AGGCACGNAC CACCACGNCC GGCTCACCTT TGTATTTTTA AGTAGAGATG
GGGGCCTCAC CATATTGGGT CAGGCTGGGT CTTCAATCTN CCTGGACCTC ATGNTCCACC CGCCTTGGGC CTNCCAAAAG
TGCTTGGGGA TTANAGGGAA TNGGGCCACC GGGGCTTGGG CCAAT

SEQ ID NO:1687: (Length of Sequence = 170 Nucleotides)

AAAAACCAA TAAAGCAATA ACTTTAAAGA CCTCAGACAC ACACAGTATA AACACCTGGG TAAGGTTTTN TCCGTGTCCA
TGTTGACACC GGAAGTACCG TTAAAGTGCA AGTTTTGTIT TGTGTTCCTT TGTGCAGTTT CACTCACATG TAAACAAGTC
ACTTGGCTAT

SEQ ID NO:1688: (Length of Sequence = 386 Nucleotides)

AATGTGATTT GATGTTAACA CTAGAGAATG ATGACTGTAG AACATTGAG CAAGTAAAT AGTAAAGCAC ATAGTGAGTG
TATGTCCATC TAACTGGTAC ATTGATAATT TAGTTTGGGC ACATAAAGG AATATTTATA TGGCTTCCCA AATGCAGAGT
TACATCTTAT TCGTGTATTT CTCTGAGTAT TTATATCCCG TCTCCTTTTT TCATTCTTAA AAATAAATGA ATTTTCACCTG
TTGGCACATA TGAGGCTTAA ATATAAGGAG CATAACACTT GCATTCTAAT TTTTGCATAT ATTGTAAATG TGTCTGGTAT
TTACAGCAAA ATACTGTGTA TCCTTTATGG GTAAACAAAG TGACATTGCA TGCATGTAAT GTGATG

SEQ ID NO:1689: (Length of Sequence = 400 Nucleotides)

CTTCTGTGG ATCAGCGTAT TCCTAGATTA GGAATTCAAA TTAATGAAAA TTCACATATG AAAGGAAAAT CCATTGCTAT
TTCTGGAGAG GACCTCAGTC CTGGGCTTTT CCCTGGCATT GCTACCTGGG TGGGTGCTCA CCCTCAGGT GCTGGTGTG
GAAGGCAGGA GGAGGAACCT GAAATCCTGC CGATTAAGGC TAATTAACAG GGTTTAGGTG CCTAATTATC ATGACTCAGC
CCGGGACTTA TGGTTAGCOG TGCAGGCCAG GTGAGTCTCT TATGGACTTC CTCTCAGACT GCTCTTTCTC ATTTTGTCTT
GATGAGATAT TGACAGTCAT GTCCACCCGC TTCCTCATCC ATTTCCCGTC TTTGGGCCCT GGGAAGTACG GGGGCCTCTG

SEQ ID NO:1690: (Length of Sequence = 337 Nucleotides)

AGTATATAC CTTTAAAAGT AACTAATGCA ACTGCCAAN AGGGACAGTG TCAATATCAT TGTTTTCATT AGAAGGACGG
CTGCCCCACA CTGTNAGAAC ACTGCTGTTC CTAACAGTAG TTTACTTTNA GAGGGATGTA AGAATTAGTT TNACCTTAAT
TCCAGATGTG CATGCCCTCA AAGAAAAATC CCATTCTCCT TCCTTTTGGG GAGCACTTTT GGTGGCACCA AGGCTGGTGT
GGGGTAGTGG AGAGAGCACT GAGCTTAGAG TCACAACCAG ATGAACTGC TCTGGTCTTC ACTAGCTGTG TGACTTGGGC
AAGCAGCTTG CAGTCTC

SEQ ID NO:1691: (Length of Sequence = 372 Nucleotides)

TCATTCTCCC AAAGTGCTGG GATTATAGGC GTGAGCACGT GCGCCAGCC TTACTTATTT TTAAATCAGA TTTTTTAATC
AACTAAAACA GCTATGAGTT AAGTACCTGC CCTGCAAAA TTTTTAGAAA AAGTTTTAGG ATTATGAAAT TAAGAATTAT
TTTCTTAAC TGAACAGTT CTAAATTTA TCTGATACTT CTCTAACAAG TGAGTGATCT CATGTAACCC CAGTTTGTAT

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CTTAAAGGCT GCAGCATAGA ATTGAGCTGT ATAACAGTGT TAGAACTGTC AAGTGATAAT CACAGAACAG TTTGTATCGG
TTTATAAATT CTCATGTCTT GATCAGATCT GAAGGGAATA GGCATACCCT CC

SEQ ID NO:1692: (Length of Sequence = 360 Nucleotides)

TTTTTTTGGC AAAAATAGTA TATATTATT ATGTACAACA TGTATTTTGA GATATGTATA CATTGTGGAA TGTCTAAATT
GAGCTAACAA ATACATTATC TCACATACCA TGTTTTTTTG TGGTGACAAC ATTCAACAAT ATAGACCATT TCACAAATTT
GCATGTTATC TTTGTGCAGG GGCTATGCCA ATCTTCTCTG TATTTTINCA ATCTTGGTGT ATGTGCTGCT GAAGCACACA
CCCTAATTCC TTTCAATTA GGNCTAGIT AACCTTCTC TTAAGTATAA CCATGTATTT TGTTAAGCAA TATCTTTTTA
TTACAAAAT GCCATTTTTT TCTGGNTAGG AAAATTGATT

SEQ ID NO:1693: (Length of Sequence = 378 Nucleotides)

GACAAAAAGA GGGGTCTGGC TGCCGATGTG GAAATTTGTT TTGTGGACTT CACCGTTACT CTGACAAGCA CAACTGTCCG
TATGATTACA AAGCAGAAGC TGCAGCAAAA ATCAGAAAAG AGAATCCAGT TGTGTGGCT GAAAAATTC AGAGAATATA
AATTACTTCT TGTGAAGAGA CTGAACTTT GTTTTTATTT TAATATATCG TAGGAAAACA TTAAAGAGCA GATGCATGGC
CATTTTNCCT TGATGTTCTC CAGAGTTTTA CATTACACTT GTCTGTCTTA TAATTGATAT TTTAGGGATG TTTGGGTGTT
TGTTACAGGC AGAATTGGAT AGATACAGCC CTACAAATGT ATATGCCCTC CCTGAAA

SEQ ID NO:1694: (Length of Sequence = 362 Nucleotides)

AATGCACTTT ATTGGCTCCC AGGGAGTGGG ATGCAGGATC AGAGTGGACA CGCGCAGGGG GCTGGTGTGG GGAGCAAAGC
NCCGGGCCTG CCCCGGACCC TGGTTTCCCT GAGGACCAAC GTGAATGGGG GCCCCACTGG AAAGATGCTT GGGGCTGCAG
AGCGGATGGA ATGCAGGCCC AGGTTGCTGG GTGGTGCCCT CAGCTCCTGG CAGGGTTGAC GGGTGGTGGC CGCTGGGCTC
TGCCAGCCGA TGGTCCNCTG GCACCTGATC CTGTCTTCCA GCTTCACTTC CGGCGCTGCT CGTAGTTGTC AGTGAACCAA
GCACAGGTCT CTTGACCGN CTGCTTTNAA GGGTGTGAAN CG

SEQ ID NO:1695: (Length of Sequence = 411 Nucleotides)

TTAATACAAG GGGTTGAAC TGGACATCCT AATGATGCAA TTACGTCATC ACCCAGCTGA TTCCGGGTGG TTGGCAAAC
CATCGTGTCT GTCTGAGAG GCTCCACAAT GCCACCCGC ATCGCCATTC TGTAGTCTTC AGGGTCAGCT GTTGATAAAG
GGGCAGGCTT GCGTTATTGG CTTAGATTTT GCTGCAGATT AAATCCTTTG AGGATTCTCT TCCTTTTTAC CATTTTNCIG
CGTGCTCTCA CTCTCTCTT CTCTCTCTAG CTTTTTAATT CATGAATATT TTCGTGTCTG TCCTCTCTCT TCCTGTGTT
TCCTCCAGCC CTGTCTCGG AGACGGTGT TTCTCCCTT GCCCATATC TTTCAACTC CCAGGGCTAC CCATTTCAAT
GGTGGTCTG T

SEQ ID NO:1696: (Length of Sequence = 280 Nucleotides)

CTTTGTGATG TTTTACGCT TTACAAAAG CAGATTTGGT ATTCAAGAAA GCCTGCAAAT ACAACATTGC TTAAGAGAAC
CTGTAAACAC GTTTGGAATA CAATGCAACA CAAGTCAGCA AGGACAGGGG TAGGTCCAAA GGAGCCAGCT AGGGGGAAAG
GTGACAGAAA AGGAGAGGGA AGGATGGNGA CAGACATCAC CTGTGCTCTC TAAGGGGGCC NTGTGTTTAA TTTATAAGGT
TTNCTNCCCA CAGGAGTCT NNTGTGATCT ATCGTTTCAT

SEQ ID NO:1697: (Length of Sequence = 418 Nucleotides)

ATTTCTTCAT TTACAAGAGG AATATATTTG GCTTCTCTCT TAAGACTCTG AGATTCACAA TCAGCAGCTC TAAAAAATAA
AGGAGCAGTT TGGCTTCCGG AAGGAAGAGG AGGCAACACT CGGACCTGGT TCTTGTACAA CAAGAAAACA TCCTGGGGG
CCCCTGAGG CTGGAGTGGG GGTGGAGGCT GGTCTTTGGA GGATGCCACC CCCACCCCAT CCTCTGTCA GGCCCTCGGG

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GTACCCAGAG GCTTNGTGGG TGAGTATTCC ACCTGCTTAC ACACCACTGA AGCCACAGCC AGCCAGTAAC TAAGGGGCAA
GAAAGAGCAT TGTCCAAGCT GGCTCTTING GGGGGTCCCC CATINGGCCA CAAAGGCCTC ACCCCCCACC CCATCCCCGT
AACCAGAAAC CACCTTGA

SEQ ID NO:1698: (Length of Sequence = 376 Nucleotides)

ATTTTATTTG TTTATTTACT TATTTTTTAC CCTTTTTTCA AGAGATGGGG TCTCACAGTG TTGCCCAGGC TGGACTTGAA
CTCCCACTCC TGGGCTCCAG CAGTCTCCTT GCCTCACCTT TCCAAGTAGC TGGGGCTATA AGTACACACC ACCATGCCCA
GCAATATTTT AATTTCGTGA ATGTGTCAIT TAGCCAGTGA TTGTGTATT ATAATAGAAT CACAGAAATG GAGGGACTCC
TAGAGGTAAT CAAATCTGGT GGTTTTTAAG CCTTTTATTC CCTCTAAAGG GATAGTAAAA CCATTAAAAA TATAATTTTT
CCCAATTATG TAAGCCAGRG AAAGCTGACC TYCTGGTTTA GAGAGGAACA CAGATG

SEQ ID NO:1699: (Length of Sequence = 365 Nucleotides)

GGTACATGTG CACAACGTNG GNGTTTGTGA CATATGTATA CATATGCCAT GTTAGTGTGC TGCACCCATT AACTCGTCAT
TTAGCATTAG GTATATCTCC TAATGCTATC CCTCCTCCCT CCCCCTACGC CACAACAGTC CCTGGTGTGT GATGTTCCCC
TTCTGTGTG CATGTGTCTT CATTATTCAA TTCCACCTA CGAGTGAGAA CATGCTGTGT TIGGTTTTTT GTCTTGCGA
TAGCCAGATG CAGCTACTCT TAATGTGCAT ATTTTCATCC TAGAACATTG GAGAGTTCCT GTAAAAGCCT TGTGTTCAG
GAGGAAGGAG ATCTGACCC TTCTGCTGAT GGCAGCAGTC AGGGG

SEQ ID NO:1700: (Length of Sequence = 397 Nucleotides)

AAAGGCAGTC AAGCAGGAGT TAAACAATAT GGACCTAACT CTCCTTATAT GAGAACATTA TTAAATTCCA TTGCTCATGG
AAATAGACTT ATTTCTTATG ATTGGGAAAT TCTGGCTAAA TCTTCCTTTT CACCCTCTCA GTATCTCCAG TTTAAACCT
GGTGGATTGA TGGGGTACAA GAACAGGTAC GAAAAAATCA GGCTACTAAT CCTGTTGCTT ATATAGATGA AGACCAATG
CTAGGAAGAG GTCCAAACTG GGACACTATT AACCAACAAT CAGTAATGAA AATGAGGCTA TTGAACAACCT ATAAGGCTA
TTTGCCCTCAG GGGCCTGGGA AAACATTGAG GACCCAGGGA ACCTCATGCC CTTCCTTTAG GTTCAATCAG ACAAGGT

SEQ ID NO:1701: (Length of Sequence = 245 Nucleotides)

GTCTAGGAGG AGGCCTTCTG CACAGAGCCC CTGAAGAACA CAGGCAGAGG CCCCCCACTT GGCTTCTACC ACGTCCAGAA
CATCCAGTG GAGGTGACCA AGTCCTTCAT TGAGTACATC AAGAGCCAGC CCATTGTTTT CNAGGTCTTT GGCCACTACC
AGCAGACCCC GTTCCCGNCC CTCTGCAAGG ACGTGCTCAG CCCCCTNAGG CCTCGCGCC GTCACCTCCC TCGGGTCATG
CCACT

SEQ ID NO:1702: (Length of Sequence = 349 Nucleotides)

ATCTGTTGTC AGCAGATTT TATTTGCTGT GGAATCCATG AGAGCCGGAA GCATCGTTGG GGCCGTGGCT AGCAGAGCTC
ATGGTGACCA GTCTGGGCC TGACCAATGG GTGATTACAT TTAAAAACCA AAACAAAACA AAACAAAATA CCAAGAACAG
ATCACTTGCC ATGGACATCA GTAATCTATT GGTAAATGGTG AAAATTTTCAT GAAAATTTCC CCTAAACCAT AACAAAACT
GTCTCTCTTA CCCCAAAAGT GCTGGAGGGA AAGATGGTTG CATGGCTTTG ACCTCTCTTT GAACCTTGAA TGCTACCTTC
CTACCCGGAA AATGCGGCAC ACTATACTT

SEQ ID NO:1703: (Length of Sequence = 419 Nucleotides)

GAGCCCTGCT CCTCCAGAAG CTCACATCCT CTTACTCATG GCAGACAAAT AAACGTGAAT TACACTGCAG GGAGGTAAGT
GTGGCAGCAG ATGTAGTATG CAGTGCAGAG GTGGCCATGG TTGCTNAGGC AAGGAGGGCT TCTAGCATG GCGGTTATTT
GACCAGAGGC TGGCGGTGGC TTTTGCTAGC AGTGTGATTG TNATCTGAGC CAGGGACAGA TACCTCTNTG AGCCTTGTTT

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TCTTCATCTG TAAAGTGGTT AAAGACTGAN TAAAGCAAAA TATGTGCAAA CAGTCTGTGA ATGGGGAAGT AACAGATGTT
GCTTCTATT ATGTTCTCTC CTAGCCATGA ATATCAATTA TTTCAGAAAT GAAAAGGGAT CCTGCACCCA ATTTCAAATC
AAGCAAGTTC ACCTAGAGG

SEQ ID NO:1704: (Length of Sequence = 372 Nucleotides)

GCTTCCCGAA GGTCTTGGAC GAGCGCTCTA GCTCTGTGGG AAGGTTTTGG GCTCTCTGGC TCGGATTTTG CAATTTCTCC
CTGGGGACTG CCGTGGAGCC GCATCCACTG TGGATTATAA TTGCAACATG ACGCTGGAAG AGCTCGTGGC GTGCGACAAC
GCGGCGCAGA AGATGCAGAC GGTGACCGCC GCGGTGGAGG AGCTTTTGGT GGCCGCTCAG CGCCAGGNTC GCCTCACAGT
GGGGGTGTAC GAGTCGGCCA AGTTGATGAA TGTGGACCCA GACAGCGTGG TCCTCTGCCT CTTGCCATT AACGAGGAGG
AGGAGGATGA CATCGCCCTG CAAATCCACT TCAACGTTCA TCCAGTCCT TC

SEQ ID NO:1705: (Length of Sequence = 426 Nucleotides)

GATGCCTTAT TTAGTCCATT TGGTGAGGTA ATGTTTTCTT GGATGTCCCT GATGCTTGTA GACATTGTT GATACCTGGG
CATTAAAGNG TTAGGTATTT ATTCCAGTCT TCACAGTATA GGCTTGTTTT TAGCCATCCT TTTTGAGAGG ACTTTCCAAG
AATTCAAAGG GGATTGAGTG TTGTGACCTA AGCCTATGGT CACTGCAGCC ATTTCAACAC TAGAGAGTGC CCTAAGCCCC
GGAATGCTGC AACTCTTACA GACTCCTTGA TACACAGCTT TGGTAGATTT TGGGAAAATA AGGGAGAATT CCTTGGGGTT
ACCAGGTAAA AAGTCTCTCC CACTTCCCTC TCTTTCTGGC AAAGGAAGTC AGTCTCTGCA CCAGGCTGCC TGGAGTTTGG
GGGAGGGATA AGGCGTTCAC TCTAAT

SEQ ID NO:1706: (Length of Sequence = 412 Nucleotides)

ATTTTATTTT CTTACATCGA AGAAAATGTT AAAGAGTATC TNCAGACACA TTGGGAAGAA GAGGAGTGCC AGCAGGATGT
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCACCTG GATGGGGCTG TTCTATCCC TGCAGCATCT GGAATGGAG
TGGATGATCT GCAACAGATG ATCCAGGCCG TGGTAGATAA TGTGTCTGG CAGATGTCCC TGGTTCGAAA GACCACTGCA
CTCAAACAGC TGCAGGGCCA CATGTGGAGG GCGGCATTCA CAGCTGGGCG CATGAAAGCA GAGTTCTTTG CAGATGTAGT
TCCAGCAGTC AGGAAGTGGA GAGAGGCCCG AATNAAGGTG TACATCTATT CCTCAGGGAG TGTGAGGCA CAGAACTGT
TATTCGGGCA TT

SEQ ID NO:1707: (Length of Sequence = 434 Nucleotides)

GTGTGTCTGC AAAAAAAAAA AAGATTCTAG GCATGGTGGT GTGTGACTG TAGTTCCAGC TACTCCAGAG GCTGAGGTGG
GAGGATTGGT TGAGCCTGGG TGGATGAGGC TGCACTGACC CATGATCATG CATGGGAGAC AGAGCAAGAC CTTGTCTCAA
GAAAGGAAAG AAATCACTGG CTCTTCTGTA AAAAAATGATC TGTTAAGAGT AATTGAAAAA ATAAATACAA GTAATAAAT
AATCTTTTCA TTAAGAAATA CTACCAAAT TAACATGGAG ATCTAGCAA AAGTCAAAG CAGCTNGGCG TGGTGGCTCA
CACCTGTAAT CCTACACCT TGGGGAGGCT GAGGCGGGAG GNTCGCCTGA GGTGAGGAGT TCGAGACCAG CCTGGCCAAC
AGAGCCAAGT CTCTACTTAA ATACAGATTA GCTT

SEQ ID NO:1708: (Length of Sequence = 440 Nucleotides)

GGACCAGGAC TCCAGCACCT TCCCTGGCTG CATCAACAAT GCCACACTCT TTCAAGATGA GATAAACTGG CGCCTCAAGG
AGGGACTGGT GGAAGGCGAG GATTATGTGC TGCTCCAGC AGGTGCTTGG CATTACCTGG TCAGCTGGTA TGGTCTAGAG
CATGGCCAGC CACCCATTGA ACGCAAGGTC ATAGAGCTGC CCAACATCCA GAAGGTGGA GTGTACCCAG TAGAACTGCT
GCTGTGCGG CACAATGATT TGGGCAAATC TCACACTGTT CAGTTCAGCC ATACCGATT TATTGGCCTA GTATTGCGCA
CAGCTCGGGA GCGGTTTCTG GTGGAGCCCC AGGANGACAC TCGGCTTTGG GCCAAGAACT CAGAAGGCTC TTTGGATAGG
TTGATATGAC ACACACATCA CGGTCTCTGA TGCGGCCCTT

SEQ ID NO:1709: (Length of Sequence = 404 Nucleotides)

TTTGTCCTAT GTAGAATTGC CTATAGTAAG AAAACCCAGT AGAGAAAGTG GTTTNAGAC CATTCGGCAG CTGCTTTGGA
CACCTGGAGC CATTCTTTT ACAGATGAAG ATGCATTGIG TCATTGTCTC AGGATCCTCG TCTGTGCT TCTCTGGCCA
CAAATTGTTT TTTACCAAAG ATGATTTTAT TTCACTGTCT TTGAAAATCA TTCCTTATAG GTAGAATATG AAGATTCTCT
GAAATGATT CAAAATGCCA AACTCAAACA CTATTGTCCG ATTTCTTTAC TTGCAACAAG AGAGTAGAAG GGACAGTATT
TGTTTTGTGA TGTTGGGGCG TTCATCAGGG AGAGAATTG AGATAAGTAG GAATAGCAA TAGGAATAGT GAAATAACCT
AGAT

SEQ ID NO:1710: (Length of Sequence = 187 Nucleotides)

GGTGATCTGC CGACCAGAGG CCTTAAACTC TGGTGTGAG TACTACTGGG ACCAGCTGAA CGAGACGGTC TTCCTGTCC
ATTCCAACAG CAGGAGCAGC GAGCGSCTGG ACCAGGCAGA GCACATGGAG GACAGCAGAG ACATGGGCTG ATGAATGCAT
TGGGCTTCAG CGACCTGCA CTCAGT

SEQ ID NO:1711: (Length of Sequence = 313 Nucleotides)

AGGGGCATGT NATCATTINA ATGATGINAT CTTTGGTGT TCCCTCATTA GCTGTAGACT ATCCCCTCTC CTCCCACCAC
AATGTTCTA TGATGAGTTA CAAACAGAAA GGAAATCACA TTTTCATACT AAAACAAAA TGATCAGAGC CTGATTTCT
CCACTAGAAA CTACACGTAC AGTTAAGAGT CCACATGCAA CACCTTAAAT CACAGACTGA GGACCTCACA TTCTGACCTG
GGAGTCTCT CCCCTTCCCC AGCCTTGGGC TAGCTTTGGC CTAGGCTCAG GTAATACTGA CCCCCACAGG CGT

SEQ ID NO:1712: (Length of Sequence = 202 Nucleotides)

TTTTGGTGGT TTCTCTTTA TTGTGTGCCT CCTACCTTCC CCCACAATT CAGTCCCTTC CAACACCCCA AAAAGAAGGA
GTGAAAGGAA GGGATTGCTG GGGTCTGAG CCCTTGGCAG TCAGAAGGAC AGAACCAAAC ATCACTGGAT GTGACACAGC
TGCATCAAGA AGTCTACAGC AGTATGGGAA GCGGCAGAGA AG

SEQ ID NO:1713: (Length of Sequence = 253 Nucleotides)

TGATTCANTG GGTCTGGGAT AGAGTCTGGT ATTCTGCATT TCTGACTAGC CTCCAGGTGA TACTGATTCT CCTCATCTAG
GGACCTCGCT TTGAGTAGCA AGTGTTTAGG CCACTTACTA GCAGGAATA AGCACAGTAT CCTACAACAG CAAATGTCTT
TCCAACAAGA AAGACGAGAG CAAATNCTGA TGCCACATCT GCACTGCCTC AGAAAATAAA GAAGGGATGA GGAGCCCCC
AGTGGCACTC TGT

SEQ ID NO:1714: (Length of Sequence = 299 Nucleotides)

GGTGCAGCTG CTTTGAAAAA TGACTTGGCA GCACCTCAA ATGTTAAACA GAGTTACCAC ATGACCCAGT AATTTACAC
TTAAGGATAT ACTCAAGAGA AATGAAAAC AAAAACATAC GGCTACCCAA AAACCTACAT AAGANTGTT ACAGCAACAT
TATTCATAAT AACCAAAATA TGGNAACAAC CACAATGTCC ATCAATTGAT AAMTGGGTAA AGTCTGGCAA ACTCAGRA
TGGRATATTA TTTGGTGGTA AAAAGGAGTA AAGAACTSN ATGTACTACA ACATGGGTG

SEQ ID NO:1715: (Length of Sequence = 371 Nucleotides)

TTTTTTTTTAC CGGGGCGTTC CTGAGTTTAT TTGGGGCACA CCGGACGAG GGCCCTGCAC CTAGAAGAAG GTGTTGGGCC
TCTTGGTGGT GAAGCGTGGC TTGTGCTGAC GGCGCAGGAC CCGGTGGGGC AGCGGGAAT TGATCTTGA GTCTGGAAC
TGCTTGACAG CCGGCGGGCG GCACCTGCTG GCGCGATCT CCTCCACCT CATGATCTGA ATGGAGTGGG CTCGGGCGCG

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GTGCCGGGCA CCCATGTCCTC GGTAGCACTG GGTGACAGCG CTGCGGTGG TCAAGTCCCG GTATTCGCGG TACATGTTGT
GGGTGCCGCT CCGGGAGTCA TAGCGCAGCA AGATCCCGAA GTTCTTCAAC C

SEQ ID NO:1716: (Length of Sequence = 265 Nucleotides)

GTGCAGAATC TGCTCCTGGA CACCCACAGG GGGCTGCTGT ATGCGGCCTC ANANTCGGGC GTAGTCCAGG NGCCCATGGC
CAACTGCAGC CTGTACAGGA GCTGTGGGGA CTGCTCCTC GCCCGAACC CCTACTGTGC TTKGAGCGGC TCCAGCTGCA
AGCACGTCAG CCTCTACCAG CCTCAGCTTG CCACCAGGGC GTGGATCCAG GACATTGAGG GAGCCAGCGN CAAGGACCTT
TNCAGCGCGT CTTGGTTGT TTCC

SEQ ID NO:1717: (Length of Sequence = 350 Nucleotides)

CAGCCCCGCG AGCCCTCTGG CCCCCTCCAT CTCTGTCCG TTCCACCCA CCCCCTCCT CGGCCGAGC CTTTTCCCGG
TGGGTGTCAG GNTACTCCC ACTAGGGACT CTGCGTAAT TACCTGAGCG ACCAGGACTA CATTTCCTAA GAGGCTCTGC
TCCAGGAGTC CAGGAAAGAC GAGGCACCTT GGCGCGGGG CTGCTGGGA CTGTAGTTG CCTAGACAGG GCACCACCT
GCACTTCGG ACCCGCGCTG GAGGCGCCGT GAGGTTTGGT GTCTCGAAGC AGCAATTAA AAGCAAGAGG ACTTCATGAC
CACCATGGAC GSCAATTAGG AGAAGATCAA

SEQ ID NO:1718: (Length of Sequence = 379 Nucleotides)

GACATGGAGA CTCACATGGC TGCAGAACAC TGTGAGTGA CTGCAAATG TAACAAGAAG TTGGAGAAGA GGCTGTTAAA
GAAGCATGAG GAGACTGAGT GCCCTTTGCG GCTTGCTGTC TGCCAGCACT GTGATTAGA ACTTTCCATT CTCAACTGA
AGGAACATGA AGATTATTGT GGTGCCCCGA CGGAACATG TGGCAACTGT GTGCGCAATG TCCTTGTAAG AGATCTGAAG
ACTCACCTG AAGTTTGTGG GAGAGAGGGG GAGGAAAAGA GAAATGAGGT TGCCATACCT CCTAATGCAT ATGGATGAAT
CTTNGGGTCA GGATGGAATC TGGATTGCAT CCAACTCCT CAGACAAATT GAGGGCTCT

SEQ ID NO:1719: (Length of Sequence = 197 Nucleotides)

CCTATATTG TTTAATTAT TTAAGACCAC CTCCTTACAA CTTCCAGAGA GAAAATACAA AACAAGAAAC AGACTTGGTT
TCAAATGCAT AACCAGGTGC TGGAGTTTAA AGCATTACTG ATAACATTGT TACAGAAGAA TGGCAGCTTA CTCCAGGGCA
CTTCAGTATT CTGAGGAAT AAACATGATT TCGGAAG

SEQ ID NO:1720: (Length of Sequence = 203 Nucleotides)

GAGGGCCGGG CAGAGGGAGC ATGACGGGGA GAGTGAGGAG GAAAGAGGAA AGGAAGGCCA GGGTGGGAGG AAGGATCANC
TAAATCTGAG GGAAGAAGAA GGAAAGGAGA GGGCTATTT CATAGCAGAT GCAAATRAAG GGNCTGGGG CTAKTCAGGA
AGAAAGGGAA AGGGAAGGAA GGCAAGAGAG AGGGGTGAAG GGA

SEQ ID NO:1721: (Length of Sequence = 326 Nucleotides)

GGTGCAGCGA TGTTTAATGG CAATTCGTAT AAACCAAGCC CATGCACAAG TAGAAAGTGC CGGTGGAGCC GGCAGGAGGC
CCCCGCCGCG NTAGAGAACC ACAAGCCCGG CCGTCAGCC CTCGCCGCGG CGCCTTAAAT AGATTCTTCA CTATACTCTG
TATGTTACAG TATGTACAAG ACCCTCCCC TCGGGGACG GGGCGGACTN CGCAACNGT TCCTATGTAC ACCACCTCCC
CTTTCGGCCC TGAGGTCACT GGCCAGAGTC GGGTGTATGG GTAAGANAGG GCCAGAGAGG GAGGAAACAG ACGCAACAT
CGGAG

SEQ ID NO:1722: (Length of Sequence = 291 Nucleotides)

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TGTTTTTAAA AATGAGAAAA TTTGGAGAGA GAATACTATT ATGTCAACGG TACAAGACTC TGAATCTTGA AGATGTAGAT
 GGATATAATA TTTAGACTTT ATATACACCC ATAGATATGT ATTTATATAT GCATACGTTT TGTATAAATT TACAATTGAC
 TTTTGTATT CTCTTNCIG TCATTACAAG AATGAGATGG AAACCAAAAT AGTTGTNCCA TCCTCTTACC CAAAGAGGGA
 TACTGAAAAG TCCGGTATGT GCATGCACIT GTTCTCTGG GGTCAAATCT G

SEQ ID NO:1723: (Length of Sequence = 369 Nucleotides)

GATTGCCCGC TCCCTCGATT CCTTCTGTGT GTCTCCAGAA GCTGCTGTGG GCTTGCTAAA AGGGACAGCA CTTGTCTTAG
 CCCGATTACC TTTGATAAG ATTACCGAAT GTCTTAGTGA ACTATGTTCT GTTCAGGTGA TGGCATTGAA AAAGCTGTTG
 TCTCAAGAGC CCAGCAATGG CATATCCTCA GATCCACAG TGTCTTGA TCGCCTTGCA GTGATATTGA GGCATACCAA
 TCCCATTGTG GAAAATGGAC AGACTCATCC GTGTGAGAA GTCATACAGG AAATATNGCC AGTTTTTATC CGAGGACTCT
 AAAATAAGCA CCGAGCTGNA TAATCGGATT GTAGAGCGTT GTTTGCAGG

SEQ ID NO:1724: (Length of Sequence = 231 Nucleotides)

ATGTATGTT AGTTCGATT CTTCAAATTT TATACATATT TACTTTCGT TAAAGAGAAA AGGATAAAAT GGTATAAAAA
 AAGATAAGC TATTAATTAA GCACGAGAGA GAAGATAAAT GGATATTTTC CTTGTGTGAG GCTAAGACAG AWGCAATCT
 CGTTANGAAA AATGCCACCC ACACAACAGG AANTTTATCC AAAACAAAC AAAAGCAGTT ATAGANCCCC T

SEQ ID NO:1725: (Length of Sequence = 317 Nucleotides)

GTGCAGGGTA GGGTACATAT GGCTCTGTCA GAAGAATACC ATGATTTAAG GGAAGAAAGT ACACAAGGTA CATGGAGGGT
 ACACAGGGAA AGTACATTA TAAACATGGA CGTGTGCAAA TAGGAAAGAC ATGACTCAGC ATGCTAGACA AATTGCACAT
 GCCTACCCAA ACACGCTTA GGGCAGACCC ATGACCATGA GAGGGGCACA CGTAGCTGTG AATGCAGGGC ACCCGAGAGC
 ACATGKACT KAACATGAAG AAAGCATACG GGAAAGCGT GKTACACAT GNGCATGTTT AGTGGGGCAC ACGCAGG

SEQ ID NO:1726: (Length of Sequence = 282 Nucleotides)

CTCTGAACC AGATGAGCAG CCACCGAAA CAGAAGCAGA GAGAGCCGGA GTCCTGGGAA TCCAGGAAGT CGCAGAGCAG
 GGGGTCCAGC ACCCTCAGGA GCAGCAGCAG TCGCCCGAKT TGCCCGTTCA TGGTCTCCTG GCTCTCTTCA AAGTTCCCTT
 GCACGAGCTC CATGAAGCCA CAGAAACACC AGAAAGCATC CACCTCGTTC TGAATGACGT AGAGGATCGG GGAGAGAAGA
 TCACTCATGC CTTGGACGTA GCGAGGTGG AAGTGATACA TT

SEQ ID NO:1727: (Length of Sequence = 285 Nucleotides)

GAGTATGAT TTCAGGCAGG ACCCAGGTCC CAAAATGTTA GAAACAGTTA TCCTTTTCC CTCTGAGTTC GTTATTCTCT
 GGGGCCCCAG TATCCGTGGC TTAACAACCC GGCTGGATAG AAGGCACCTC TTTCCCCACG TTCCAACAAG ATCCCAGAGC
 TGCTTCTCAT TGGCTCGTCC CTGAGTCAGT CACACTGGAC CGGAAGGTGA AAGGCCCTCA TTGGCCAGNC CCGAGTCATG
 TGCCCCCCCC TGGGGATCCA GCTGTGGGNC TNCCTTAACA GCATT

SEQ ID NO:1728: (Length of Sequence = 394 Nucleotides)

TTTTTTTATGAT GAGGAGATAT AGCAAAGGGT CATTTGCCCC TCCTTCAGAA AACTTTTCTC CAAATCTCCT TTAAACATAC
 TGCTTATCT TTCCCTCCAT AACTCCACCA GTCTCTCCAC ATCCCCCTCC AAATCTCTGT ATACATAGGC AAGAGAGGGC
 GATTCCCAGC ACAAGTCTAG TCCTGGGCGA AACTTCCATC TCTTTCTCG CATACCTCCT GTCTGGGTAT GGGGATAAGG
 GAGAGTATGG GATTTTGTTC TCCATTACAT GCTTTTTCAA AATTTCTGTA ATATGTGGCA CTTATAAAAT CAGAACAGAC
 AAAATGATAT CGGGTAAAC ATGCAACTGA GAGCAATTG GGGAAAAATC CTCAGGNCAC AAAATGTATT ACTG

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SEQ ID NO:1729: (Length of Sequence = 301 Nucleotides)

GGAAGTTAA GTATTTATTG ATGTGTTTAA ACTGTGTACA TTCTCCACAG ATCATATTAA GNGTITTKTA GKGGAAGTTT
 AATCTGTGCA TAGTGGGTAG YGACATGAWT AGGGTCAAAG GGGAGGYAAA AGGAAAAAAA CAAAACAAA ACAGTCACAG
 GAAAWTAAAA ATACACCMCA GGTIACCAGA ACCTTCAGGT TTAAAAATAA ANGNAAGNAA AAGCAGAAGC AGTGAGCATC
 GGCATCAACC TGTACAAGCA TTACAAAAGG CTCCTGTGAC GGAAACACAA TTGTTCAAAG G

SEQ ID NO:1730: (Length of Sequence = 312 Nucleotides)

GACGRACGCT CTGCCCACGC CCTGAGCGTG TACACATGAT GTNTTCTATG CATTCACCCT GCCCCCAGC COGCCCTGCA
 GAGGACAAGA TGGGTGGCCC CGGCTCCCTT TCCCCTAACC GCCCCTGCCC GCTGTGCAGC CGTGTGCGTT GGCGTGTGTT
 TCTGTGTAC TGGCGTGTCA CGTGATGTAG CCGTGTGTTG TGACATGAGC CCCTGCCCCC TTCTGTGTTT CTCGGTGTGT
 TTCTAGAGCT CTCTCCCTCC CTTCTCAGA GGGGACAGGA CTCCTGGGGT CTGGCTCGG CCCAGAGCCA GG

SEQ ID NO:1731: (Length of Sequence = 392 Nucleotides)

ATCGGCTATG GGTTCGGTG CGTGACAGAG GAGTGCCCGC TGGCAGTCAT CGCTGTGGTG GTTCAGTCCA TGTGGGCTG
 CGTCATCGAC TCCTTCATGA TTGGCACCAT CATGGCCAAG ATKGCGCGGC CCAAGAAGCG GGCGCAGACG TTGCTGTTC
 GCCACCACGC GGTATTTTCG GTGCGGACG GCAAGCTCTG CCTCATGTGG CGCGTGGCA ACCTGCGCAA GAGCCACATT
 GTGGAGGCC ACGTGCGGGC CCAGCTCATC AAGCCCTACA TGACCCAGGA GGGCGAGTAC CTKNCCCTGG ACCAGCGGGA
 CCTCAACGTG GGCTATGACA TCGGCCTTGA CCGCATCTTC CTGGTGTGCG CCATCATCAT TTTCACAGAG AT

SEQ ID NO:1732: (Length of Sequence = 352 Nucleotides)

GTACCTAGTA CCTAGATAA AGGGAAATGT GTGATTCTTA ATGAGCTTTA AAAGGAAACA ACTTCTTTTT TTTTTTTTTT
 TTTTGTAGAC GGAGTCTCAT TTTGTCCCC CAGGCTGGAG TGCAGTGGCG CGATCTCTGC TCACTGCAAG CTCGCGCTCC
 CGGGTTCACG CCATTCTCCT GCCTCAGCCT CCGAGTAGC TGGGACTACA GGCTCCCACC ACCACGNTCG GCTAATTTTT
 TGTATTTTWA GTAGAGACGG GGTTCACCG TGGTAGCCA GGATGGTGTG GATCTCTGA CCTCGGTGAT CCACCCACCT
 CGGNTCCAA AAGTGCTGGG GATTACAGGC GT

SEQ ID NO:1733: (Length of Sequence = 321 Nucleotides)

TTTTTGTGT GTTGTGTTGT TTGTTGCAG AGTCTTGCTC TTGATCTATC TCCCAGGCTG AAGTACAGTA GTGTGATCTC
 GGCTTGCTGC ACCCTCTACC TCCCAGGTC AAGCAATTCT CATACCTCAG CCTCCTGAGT AGCTAGAACC ATAGGCACAC
 GCCACCATAC CTGCTAACTT TNCIATTTTT AGCAGAGACT GGATTTTGCC ATGTTGGCCA GGCTGGTCTC GAACTCCTGG
 CCGCAACTGG ATCTGCCCAA CTCAGCCTTC CAAAGTGCTG GGATTACAGG CATAAGCCAT TCATGTGCGG TTKTTCAACT
 G

SEQ ID NO:1734: (Length of Sequence = 208 Nucleotides)

AAGTCAACGT ATCTATTTTT ATTATGAAAC ATTAAATTTT GACACATTGC CTCATTGCT TTTTAAAT CTATTATCTG
 ACTTAAACCT ATTCAGCAAA AATGCCAATA AATTATATTA ATCATACTTT GGGTCTTTTT AAAACTAGGA ACATAATATG
 TTTTATGATA AACAATAATA CTAAATCTGA GTTGTATGAA CTGTTAAC

SEQ ID NO:1735: (Length of Sequence = 347 Nucleotides)

TCTATTACCT GTACAGTATG GTTTATACGT TGGTGAATTT CTAAGGGGGA AGCCGGCCAG GGAGCGAGCC CAGAACGGAC
 CGGACGCTG TNCACCCCCA GCCCTGCCCC TTGGCCGAG AGGCTCAGC CCTGGGGAGG GAGGGGGCAC TGGTGCCCCC
 AGCCTCTCCA ACCCCCCAAC TGCTGCTGCG GGAACCCCC CCCACCCGCG CTCAGAGCC CTCCCCCTTG GACTAGAGCG

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GCTGGGCAGA GCTCTAAACA GGGGCAGGGG CTCCTCTGCC AGCCTGTGGG CATGGCAGTC ATTCTGGAA GGGGCAGGAC
CTCCGGCCTT GTCCATTTCG GGGGGAA

SEQ ID NO:1736: (Length of Sequence = 356 Nucleotides)

GACACAGGGA GGGGAACAAC ACACACTGGG GCCTGTTGGG GAATGGGGGG TGAGGGGAGG GAGAGCATCA GGACAAATAG
CTAATGCATG TGGGGCTTAA AACCTAGATG ATGGGCTGGG CGTGGTGGTT CACGCCTATA ATCCAGCAC TTTGGGAGGG
TGAGGCGGGC GGWTCACGAG GTCAGGAGAT CAAGACCATC CTGGCCAACA TGGTGAAACC COGCCTCTAC TAAAAATACA
AAAATTAGCC AGGCATGGTG GTGCGTGCCT GTAATCCAG CTACTCAAGA GCCTNAGGCA GGAGAATCAC GTGAACCTGG
GAATCGGAGG TTGCACTGAG CCAAGATCAT GCCACT

SEQ ID NO:1737: (Length of Sequence = 324 Nucleotides)

TGTTTTCTAA TGATTTTAA TTTTTCAGAG GAAAAATAATT TCAAGAAATA AAACCTAATT CCCCTGAGTC CTTATTGAAT
TAAATATTGA AAAACAATGA ATGAATGATG CATTCTTATT AATGGACTGT AAGAACTGA TATAATGGAC TTCATTCTAC
AATTCGGTTT CTTATTGTCT TACACATGCT CCTCGAAGCTT AAACATTTTA GGACCTTAAC ACCATTTCCT TAGTACAATT
ACTAAAAGAA AGCTTTGGAT AATATAATAT CAGGGAAGAT AGTACAACAT AGTGAAGGAT GACATAGGGA AGATGTGAGG
AGCA

SEQ ID NO:1738: (Length of Sequence = 316 Nucleotides)

GGCACCCCTGG GCATGTCCAG CCTGGAGCAG CTGGAGCAGA ACTTGGCAGC AACAGAGGAA GGGCCCCCTGG AGCOGGCTGT
CGTGGATGCC TTTAATCAAG CCTGGCATTT GGTGCTCAC GAATGTCCCA ACTACTTCCG CTAGGCCCAT CATGGCTCAG
GCTGCCAAG GCTTTTNTGT CACCTCTTTT GTTCTCTCAC ACTGACCAGT CTTGGCCTTA AGCTGACTTA GAAGGGTTTT
TCTGAATTGT CTAGATCCAT GCATTATTTT TCTAGCTTCC TGCCTTGCTC CCTATTCACT TTACACTGTG AAAGGT

SEQ ID NO:1739: (Length of Sequence = 398 Nucleotides)

CAAAAACCAT CTCAGGATAC TGAGAAGCCT CTGGAACCTG TGAGTACTGT TCAGGTAGAG CCTGCAGTTA AGACTGTAAA
CCAACAGACT ATGGCAGCAC CAGTAGTCAA AGAAGAAAAA CAACCTGAGA AAGTCATCAG CAAAGACCTT GTTATAGAGA
GGCCTCGACC AGATTCAAGA CCAGCAGTTA AAAAGAATC AACTTTGCCT CCCAGGACCT ATTGGAAAGA AGCTAGAGAG
AGAGATTGGT TTCCAGATCA AGGATACAGA GGTGAGGCC GAGGTGAATA TTAATCCAGA GGGTCGAAGC TATAGAGGTT
CTTTATGGGA GGGGCGTGGC AGNGGGTTGG TAGGGGACA CACTTCGAGA TTATCCTCAG TATANGGGGC AATAAGCC

SEQ ID NO:1740: (Length of Sequence = 376 Nucleotides)

GAATAAATTC GCAAACTATG CATCTGACAG AGGACTAATA CCCAGAATCT ATAAGGAACT CAAAAATCA GGAAGAAAAA
AAATCCCATC AAAAGTGGGC TAAGGACATG ANTAGACAAT TTTCAAAAGA AGATATGCAA ATGGCCAGAA AGCATATGAA
AAAATACTCA ACATCCCTAA TTATTGGGGA AATGCAAATC GAAACCACAA TGCAATACCA CTTTACTCCT GCAAGAATGG
CCATAATTTA AAATCAAAA AATAATAGAT GTTGGCGTGG GATGTGTTGA AAAGGGAACC ACTTTTACAC TGCTAGTGGG
GATGNTAAAC TACTTCGGCT ACTATAGNAA ANCAGGATGG GNGGATTCCT TAAAAG

SEQ ID NO:1741: (Length of Sequence = 322 Nucleotides)

CAATGCAA AATCAAGACT TGTCTAAAN TGTATGTCCA TAGCCTATAC TGTTTAAATT ACINTAACTN TATAGTAAAT
CTTGATGTTT AATACAGCAA ATGTTAAACC AAGCTTTCAC TACAGAAATA AACAGAAAT TATAGGCGCT CATTATCCTT
TTAGACAAAG TTGTATTTGC TTTGCTATTT TTTTGTGTTA GGNTTTKTGC AACTATTTCA CAAACAGENA CAWRATATT

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TAAATTGTTA ATAGAARTTT CCAGTTTTCT TTAGTCTCTG GCTACTCCAA GTACTGGTIG CTGTGAATGA CCTTTTCATG
AG

SEQ ID NO:1742: (Length of Sequence = 322 Nucleotides)

CCCCCAGCC AGGAAAAAAA AAAAAGCTT TGAGGAATGA GAGAGGGTGA GATGGGTGGA AGAAGGTGCT GGGCAGCCAC
GGGCGCCACG CCTCANTGGC CCCAATTGCC GAAGCCGATC TCTGCTTGT ATCTGTTAGT GAGGATGTTG GCTTTGCGCG
TNAGTTTGA GAGCACAGTG TGCAGCCCGC GCAGGTGGTA GTGGAAGTNC TGTTCAGGT CTTCTTCGCC GCGTCCGAA
CCCTCCAAGT GGGCCAGGTC CACCAGGATG TCCTTGGGAC TTCCAGGCAC TGCCCTNCTC GNTCCCAAGC CGGTNGGAGG
CG

SEQ ID NO:1743: (Length of Sequence = 250 Nucleotides)

ATGGGTAGGG GGCCAACGCA GTCACCGCG TCCGAGTCA CAGTCCAGCC ACTGACCGCA GCAGCGCCCT TGCGTAGAGC
CGCTTGAGC GAGAACTG AATTGCCAAC GAGCAGGAGA GTCTCAAGGC GCAAGAGGAG GCCAGGGCTC GACCCACAGA
GCACCCINAG CCATCCGAG TTTCCGGCG CCAAGCCAG GAGAAGCCG CCATCCGCA GGNCCNGTC TTTGAGCGAG
ACGNGAGTTT

SEQ ID NO:1744: (Length of Sequence = 247 Nucleotides)

GATGATTGAG TGTTTCTTA AAAATAAAAA CCCCAAAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA GTGTAACAGG
TTAGCCATTA ACACAGNATA AAGAWGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGKCT GGTCGKCCGA
CGTCACAGTG GATGGCCCTG CGTGGCTGGG RCACAGACAG GNGCAGGCA TGGCACCTTT CGNCAACGAG AGCAAGCATA
GGCTGTA

SEQ ID NO:1745: (Length of Sequence = 379 Nucleotides)

TTCTAAACCA GTTAATAAAT TCATTCCACA AGTATTTACT GATTACCTGC TTGTGCCAGG GACTATCTC AGGCTGAAGA
AGGTGGGAGG GGAGGGCGGA ACCTGAGGAG CCACCTGAGC CAGCTTTATA TTTCAACCAT GGCTGGCCCA TCTGAGAGCA
TCTCCCCACT CTCGCCAACC TATCGGGGCA TAGCCAGGG ATGCCCCAG GCGGCCAGG TTAGATGCGT CCCTTTGGCT
TGTCAGTGAT GACATACACC TTAGCTGCTT AGCTGGTGCT NNGCCTGAGG GCAGGGCAGG AAAATCAGAA TAGCATTGTC
TTTCTCTGGG GCAAAAATGG GAAAGTTCAG CGGNGNCAG CAGGAATCAA GTGGGCATT

SEQ ID NO:1746: (Length of Sequence = 472 Nucleotides)

TTGATGCTGT CCCTTCATTG AATTTTAGAA TGATTGAAGA TAGTGGGAAA AGAGGAAATA CCATGGCAGA AAGAAGACAG
CTGTTTGAG AGATGAGGSC TCAAGATCTG GNTCCGATCC GACTCTCCAC CTACAGAACA GCATGCAAGC TTAGGTTTGT
TCAGAAGAAA TGCAATTTGC ACCTGGTGA CATATGGAAT GTCATAGAAG CATTCGGGA AAATGCTCTG AACAACCTGG
ACCCAAACAC TGAATCAAC GTGTCCCGCT TAGAGGCTGT GCTCTCCACT ATTTTTTACC CAGCTCAACA AACGGGNTGN
CAACCACTTC ACCAAAATCC ATGTGGAGCA GTCCATCAGN CTNCTNCTTA ACTNCTGCT TGCAGCGTTT TGATNCCGGA
AGGCCATGGT AAAATTTTCA GTATTGCTT GTCAAAAANG GGTTTTAGGC NCCATTGTG TGGGAGGGGA AG

SEQ ID NO:1747: (Length of Sequence = 351 Nucleotides)

AGGATCAGAA TACTTTAATA AGATACAGT GTCAAAATAC ATTTCTTAT AAGTTAAGC TCCATACAG TTATAATGTT
GTCAGTAGGA ATTGACAAT ATAATAACGT TCATGAAATC GTTACGTTGA CAGGTAGGGT TAATATGAAG CTGGAATAT
TTCCAGTGT TTTAGTAAAA CTGCAAGGGT AAAATGCCCT TAATGCCAGG GCAACACACA CAGGNAATCA AATACCAGCA

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TTTACACGNC AGTAACCCCTT CAAGTTCCTGC CACCCTGTGT GGGGGTAATG CCGTGCAGCT AAAAATATGG GTTTTACGNA
ACANCCATGG CCTAAGGGGA TTTCTCATAG G

SEQ ID NO:1748: (Length of Sequence = 428 Nucleotides)

AATAGCTTCA GCTGATTGGG TGAGTCCTAT TCATGTTATA AAAGGTACTC TGCTTTCCCTT AACATTCCAT AAATGTTAAT
CACATCTGCA AATACCTTCA CAGCAACATC TAGACTAGTG TTTGACCCAA CAACTGGGCA CAATAGTTTA GCCAGTTTA
CACATAAAAC ATCATCACAC TATGCTTCTC TTCTGTGTTT TTTGTTACCA CGTATCTGTT CCATGTGTTT TNCITGTAT
ATATCCTATC CTGTCATATC TCTCCTATGG TTTTGTGGAA ACTATAAGCC TTCTGGGGGG TAAACACTA TATCTTTGTT
CAATTGTTAA TACATCGNAT AGCATATCAT GCCTGGGGGC ATTGGTTAAA CCCCCATTT AAATACAGCT NGGCAGCAGG
ATTTTAGGCA TTCCGTCATG GTGTGCCA

SEQ ID NO:1749: (Length of Sequence = 478 Nucleotides)

GGTTTCACCA TGTGGGCCAG GTTGGTCTCA AACTCCTGAC CTCAGGTGAT CCACCTCAGC CTCCTAAAGT GCTGGGATTA
AAGGCGTGAG CACNCACAT CACACCTGGC CCTCAACCAT CTCCTTCACC TTCTGCTCAT GACAGTTTAC TAGAATTTTT
TTCCCTTGAG ACTGAATGTT AAGTCAAAAA CAATAAAAAA TTGCTAATCA TTACTATGAC TCCAGAGCTA CTGCTTCTT
TAAATATCC TGAANTTATA AAATATAAAG CCAAAGCAAT GAATTTCTAA TGGTGGAAAT GTAGACACTG TGGGCCCCCT
GGCTGTGTTA TTTTCAGATG GGGCAAGGGG ATATTCTTAA CCTATTTTTA AAATCATGCC AGCCTAGATA ACTATGTGAA
AAATATATGG GGTGCTTAGC AAAACTATTA CCTAGCACCC CTMTGGCAGT TTTACATTAA AAATCCCTTT ATTAGGTT

SEQ ID NO:1750: (Length of Sequence = 439 Nucleotides)

GACATTTTAT TTCCAGGTG GCACGTGTAT AAGGCACAGG GGCAAATGCC TTTGGGGTCC TGGAACTGGA AATGGAGACA
GGTGTGTCTC AGGTGTCCCT GCCTCCACCA CCCCCTAAGT GCCTTGAGA CAGGACCAGT GGTGGTGGTT CCAGCCCAGG
GTCTGAAGG GTNCCACTGG CTCTAGGGGA GAGCCATGGG GACAGCTCCC CAGGCGGGAC CCTCTACTCT CCAGCTACCC
AGGAGGGACC CTNTCTCCT AGGGGGCGAG GCCAGCTCCA AAGTGCTTNG TGGCTCCCCA GGCTTAAGGG ACCAGNCTGC
CAGGGAGGGC TNGGNTCANA GAGAGAATAG TAAGATNAGA CGAGGAGAAG CACCCACTA GCACGGCGAT TGGANAACAC
TNTGGGCGGT ACTCGTCATG TGGGTAATTT GCCAANTTC

SEQ ID NO:1751: (Length of Sequence = 347 Nucleotides)

CCTATTACT TATGATTACA CCATGGCAAT ATTCCITTTT CACCAGGAGC TTGGGACCTG CGCAGGTGT GGCATGTAAT
CACCCGGAGC ATGTAGTCAT CTGTAGAAAT CACAGGCACA CTCATGTTTG CTCTGGAAGG AATCTGTTTT CCACAATGAC
TCCCCCAGC TAATGTACAC ACTGGCATTT TGCAIGCCTT CCTCACACAT GGGGCACCAG CCTTGCTTCA GAACCCCA
AACTCCACAG AGGCCCTTAA ATATGGGCTA GGGACAGATT TTCTTTAAGA AAGAGTTAAG GANGCAGCTT ACAAAGGGAC
AAGGCAAATT CCACAAGTCA GGCAGCA

SEQ ID NO:1752: (Length of Sequence = 297 Nucleotides)

GGATATTCTA GCCATACAGA TTCAATGGAA CAGAGAAGAG AAAGGAGGTT CCATTGGCAC CATAGTGAGC CATTCAITTG
CCCAGGGAAG NNGGTGGGGG CTAAGGGGCT AGGTTTGGTC CCATGGCTAC ATTAAATGCT TGGCATGACT CCAGGGCTNC
TCTAGTTAGT GGCTCCAGCA CAGTATGAGT TAGGTGAGTT AGGTGTAGGA GTTTGGGGAC AAGGAAAAAG GGAGGAGGGG
TCCCTAGAGG CTNGGTGCCC ATTACATAGA CTCAAAATCG TCAATGCGCT GCTTTAG

SEQ ID NO:1753: (Length of Sequence = 402 Nucleotides)

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AAATTTAACT TCAACAAGCT GGTGATGCCC AACTACCCAT TCATCAACAT TCGGTCAAGT GGTGTGGTTC CTCAGAGTGC
 ACCACCAGTG CCAACAGCCT CTTCOCGGTT CCATTTCCCA CCTCTGGACA CCCATTCTCC AACCAATGAT GTGCAGCCGG
 GACGGTTCTC TGCTAGCTCC CTAAGTGCTT CTGGCCAGGA GTCCAGTAAT GGTACTGATA GAAAGACTGA GCTTTCAGAG
 CTGGAGGATG GCTCAGCTGC TGAAGTGGCG CGGGGTGTGG ATCCCGTGTG CTCCAGGAAT GCCATTGGTG GAGGAGGGAT
 TGGCCATCAG AAACGCAAGC CTGACATAAT GCTTCCTCTG TTTGCTAGGC CAGGGATGTA CCTGACCCC ACAGTCCTTC
 GT

SEQ ID NO:1754: (Length of Sequence = 397 Nucleotides)

CAGTGGCATC TATGGCTCTA AAATGGAAAG GAGGAGTCTT GGATTGAGGC TACTGACTTA CTCGTGAAT TTACACATAA
 CTTCCTTTGA GCCACAGATT TAGCATTCTA CCAGTCACCT GATATTTCTG AGCAGCCACA ATATTTTAAA ACTATATTTA
 AATCTGAATT TGGAATTTAGC AGAATTTTAT TTTTCCATT TCTATTTCT ATGGTCACTA AATTGAAATT ACAACCATTC
 TAAAAATTTGA TATCATTAAA TATGTAGGAC TTTATCCAGT TTCAAAGTAA AGATGTCTCT AATGTAATTA ATTGTAATTT
 TCACTGATGA GACTGAAATA CAATCAGTCT GTATTGTGTG GTGCGTATGT ATCAGTGGTA AGAGGCTATG ATTAGAC

SEQ ID NO:1755: (Length of Sequence = 353 Nucleotides)

GAATFACTCT GTTGTTCACC TTTTGCTTTT TGCACGTGTT GINCTCTTAT CTGTATTTTG AGCTTAGTGC TAGGACTGAG
 AGGCTGCACC ATAGGGAATG TATGGGAGAT GGTGAGGGGT GCCAGTINAGG GGTGCGTGA GGAGAGGCCT GGGCTCCTCT
 ACTGGATCTA CACTCTGTCC CAGGTTTTTA GATCCCACTG AGCCAGCTG ACTGAAACA AGGACAGTCA GGGTGAAACT
 TCTTTTGCCA GAAGTGTGGC CTGAGTTGAA TTTCTGGGAG GATGACGCAG ATGTCTGCTG CAGAGCTGGG CTGAGAGTTC
 TNCAATCTAG CTCGACTTA GGTCAAGGGG CCT

SEQ ID NO:1756: (Length of Sequence = 184 Nucleotides)

TGGGCTCGGA GCATCGAGCT GGACATGCGC ACCATTGCCA CTGCACTGGA ATATGTCTAC AAAGGGCAGC TGCAGTCTGC
 CCCTTCCTAG CCCCTGTTC CTCCCCAAC CCTATCCCTC CTACCTCACC CGCAGGGGNA AGGAGGGAGG CTGACAAGCT
 TTGAATAAAA CACAAGCCTC CGT

SEQ ID NO:1757: (Length of Sequence = 425 Nucleotides)

ATTACAGGCG TGANCAACAC ACCTGAGCTA ACTTCCTGGC TTTTCAATCA AACCATCTTT GTCACCTCCT GTCCCCACCT
 GAAGTCAGAA AGCCTGAAGA GAAGACGGCT CTATTGCCNC AGCTGGAGTG TGGTGGCACA ATNTCAGCTC ACTGCAACCT
 CTGCCTCCTG GGTTCAGGCG ATTCTCCTGT CTCAGTCTCC TGAGTAGCTG GGATTACAGG TATGCACCAC CACGCCCTGC
 TACTTTTTTG TATTTTATAGT AGTAGAGATG GGGTTTCACC ATGTTGGCCA CGCTGGTCTC TATCTCCTGA CCTCGTGATC
 CACCTGCCTC AGCCTCCCA AGCGCTAGGA TTACAGGCGT GTAAGCCACC ATGCCCCGCC AATTTTGCCA GTTTTATTG
 GGCTATTCTT TATTGAGATC TAGGG

SEQ ID NO:1758: (Length of Sequence = 407 Nucleotides)

AGGAAGGCAT AAGCTAAGCA TCCTTCTAAC CAGTTCCCAA AGTCCCATCT GCCTCCATGT ACCAGCTGAT CGCAGAGCTG
 GACTGGGGCA GGCTGGGCTT CCAGGAAATT CCTGAAGTTC TGAAACAGCT TCCCCTCTAG AGAAGCCAC CCAATGTGTT
 TTTTAGTGAC AGGAAGAAAG GAGGGAAGAG CTGATGTGGT GTGGCCTGCC CATATCATAC AACCCACCA GGAGCAGGGC
 AGTTCCCAAG GTGGGTGCCC GTAGATCTGG GAGGCCAGGC TGGCATGATT CCTGTGAAGA ACTGTGCCCTG TINTGTCAGG
 GAGAGGCCCTG AGCCCTCTCA GAAGCAGGA CAGCCACAAC TGAAGAGCAC GCCAAGCTGA GGCAGCAGCA GCAGCTGGGG
 GAGCAGT

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SEQ ID NO:1759: (Length of Sequence = 386 Nucleotides)

ATATAITTTT TTTGTTAAAT TTCITTTGTAT TTTTTTCCTG CAAGACTTGG TGTTGGCGGC ACTGTTGTAG TTTAACTTCA
 ATCCCAAATT CCATGAAATA GAAATCAGAA GTAAAGGTTG AGAGGGGAGG AAGGAGGGAG GCAAGCCAAG GAATAAACAA
 GAGTTTGACT AGAAAAAAG AAGAGGGTAT GTGTGGTGGG CATTCTCTGG CAAGGCCATT CCTTGAGGGA GGGGGTTGGC
 AGGCAGCTTG CCTCTGCCTC ATGCAGGGGA GGGAGGAAAG ATCCCCTGGG GACCCTGCAG TCCCCTCTTC CTAGGGCTTC
 CTGCTCCCAG GGGAAAAACT AATACCAGAG AGGGATCAGC CACAACCTNA AACAGGGCTC TTCACC

SEQ ID NO:1760: (Length of Sequence = 395 Nucleotides)

CTTCATGCCT CTGGCCGGGT CCAAGCTGGC CAAGAAGAGG GAGGAGGCCA TTGAGAAGGC CAAGCGCGAG GCTGAGCAGA
 AAGCCCAGAG GGAGCGAGAG GNGAGAAGGA GAAGGAGAAG GAGCGGGAGG AGAGCAAGAG CGAGAGCNTG AGGCAGAGCG
 GGCGGCTAAG GCGTCCAGCT CAGCGCATGA AGGTGCGCTC ANTGACCCAC AGCTCAGTGG TCCTGGCCAC ATGCGGCCAT
 CCTTCGAGCC ACCACCAACC ACCATGCTG CTGTGCCCCC CTACATCGGG CCGACACAC CTGCCCTTCG GACTCTGAGC
 GAGTACGCCC GGCCCCACGT CATGTCGCCC ACCAACCGNA ACCAACCCCTT CTACATGCCC TTAACCCACG GACCC

SEQ ID NO:1761: (Length of Sequence = 378 Nucleotides)

CCCACCAGAG CATTTCAACA AGGCTTACCA CACAGGCCCC AGTACCTTTC TACTCTACAA TGAGGCTCAG AAGCTCAGTG
 TACCACCCCA TCCCCAGGAG GCCCACTTAG ACCAGAAATC CCAAGTCCAT TAGCTACAGG CTGATATTCA GGGACATCGG
 TGTAACAAA GAAGTGGGAT ATGAATATA TCCCTGATTT TTTTTCTTT TTTTTTTTTT TTTTGGAGAC TAAGTCTCAC
 TCTTGTCGCC CAGGCTGGAG TGCAATGGCG CGATCTTGGC TCACTGCAAC CTCGACTCT CAGGTTC AAG AGATTCTCTT
 GCCTCAGCCT CCTAACTGGG GTAAACAGACA CCTGCTACCA TGCCCGGCTC ATTTTTTTT

SEQ ID NO:1762: (Length of Sequence = 351 Nucleotides)

TGATAAATAA AGAAGTCAA AAAAATCTTT TAATAGAAGC TATAAAATAG CAGATAAGCT AAGTCATTCT CATAAACAC
 CATTTGTCAT TTGAATGCGT GCATGTGGC CTGTTACTTT TAAGTAGTCT CACTAATTTA TAGTTATATA TGATGTAGAT
 CTAGATTGTG ATGTACACTA AGTGGGTTGA TCCYGAGATC AAGCTATGAT TGCTGCTTGC GTAAAGTGT CCYTTGGGA
 AATAAATAAT CTTTCATATC TGTAACITTT GGTATAATTG GTTATTTATG CAATGTATG TTGTGGTGT CAACTCAAGA
 TTGTATTCTC ATCTGGGGAC ATTATGAATC T

SEQ ID NO:1763: (Length of Sequence = 157 Nucleotides)

GTGTWACTT AGTGTGTAAA GTGAACAAGA AAAGCAGCAT AATAAAGGAG CTGTGTTTTT ATCAGAGGAG CCTTCCTTCT
 GAGTTTTTAC ATAAGTTGAT GCCCTCAGTG CACTTTTGAA TACAGTGCTT TGAATGTGA AACACTTGAA TAAATG

SEQ ID NO:1764: (Length of Sequence = 321 Nucleotides)

GCTCCTCTGC CTTCAACTCC TCCAGCTTCT NACCACTTGG CAACGCACCA CTGCCAGTTC CTCTGGGGCT CTCAGAATCA
 CTGGAGTACT TCTGCAGCTC TCTTGATGA CCTAGGGGTG CAGCAACAGG CACAAAGCTC TCCTCCAGGT CCTGGATTTC
 TTTATTTCTT CCCTTCCTTC TCCTTGGTGT ATTTCCTG TGAGNGTCTG ACTCTATCAC TTTCAAAGCT GTGCTGTGGA
 TTTGGGTCTT TAGATGAGGC TTCATGCCCT GGNATAAGCA AAGGAGCCTG ATACAGAGTT GGCCTGCAGG GAGCAGCTTT
 T

SEQ ID NO:1765: (Length of Sequence = 420 Nucleotides)

TCAAGCCTGT NATCCTAGCA CTTTGGGAGG CCGAGGTAGG CAGATCACCT GAGGTTGGGA GTTCGGGACC AGCCTGCCCA
 GCGCGGAGAA AACCCGTCTC TACAAAAAAT TTTAAACTT AGCCAGGCGT GGTGGCGCAT GCTGCAGTTC CAGCTACTCG

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GGAGGCCAAG GCTGCACTGG GCTGTGATTG TNCCTACTGCA CTCCAGCCCA AGTGACAGAG CAAGACTCTA TCTCAAAAAT
 CAAACAACAA CAACAACAAA ACACCACATA CACACACACA ATGAGGGTAA ACAAATAAG TATGTGTGGG TCACACTTCA
 GCAGGGGTTG CTGGTTTGCC AGAGGAAAGT GCAATTATTT TATCTATGGG TGTTTATTGT CTCCACTCTA AACTGTCACT
 TACAGATGGC AAGACTGTTT

SEQ ID NO:1766: (Length of Sequence = 373 Nucleotides)

GTAAATACT AAGACACTAA ATGCGTATTT TAAATTTGCC CATTAAGTTT TGGGCTGCGT AAGAAATTAG TAAAAAATAT
 TTCCAAATAA CATGCAGAAG TTGTTTTTAA ACTTAAAATC TCATATTTTA GCTACACCCA CAGCGATGCT ATAGAGAGGA
 GCTGGATTTT GTTGTATCTG AATGGCTCAG ATTATGTTCC TTCCAAAAA GTTATTTTAT GTACGATCAT TTTTATATG
 ANGCAATGA AAAATCACC AGAATCTACC ACGTATTTAC CACATAGACA AATGTCCATC TTTAGATCTG TCATTCAACA
 CCATGTTATT CTTTTTATGC AACAGAATGC AGTGTGTGTA GAAGTACATC AAG

SEQ ID NO:1767: (Length of Sequence = 330 Nucleotides)

GGTGACAGTG GCGGCANAGC AGCAGCATGG TGGCAGCCAC CAGTGGGCGT GGGGCCCCCG GGGGAGAGGA TGCCCCAGAG
 GTGCATGAGC AGACCTCGTA ACGTCCCTCC GAGCGGCTCT GGTTCATGTTG TCCTGGAGGG GCGCGGGGCC CCTCTGCCGC
 GTCCACGCC GCAGCCACAG ATCCATCGSC CTGTGAGTCT CCACACACCA GCCAGTCCCG GGCCGTGGAC TGTGGGTACC
 CGGGTGCCAC CTCCAGCTCG CCATCCAGCA CTTTCCAGTA CTCTGGCCA CGGAAGAAGT AGGAGGCACC GTNGGACCAG
 CGCATGGCGT

SEQ ID NO:1768: (Length of Sequence = 361 Nucleotides)

AAGTGGAAAA CCAAGACTGG TAGACTCTCT TTTCTTTCAG ACAATAGGCA GGAGCCAGGC GGAGTCCAGG GATTCTTGGA
 ACACCTATCT TTCTTCGGA GGACACTAAG TTCTATTGA AGACAAAGTT CAATATGGCA ACAGGACTGA TGGGACACGA
 AGGAGTCGCT ACGTGATTT GGTGACAGTT CTTCAAAACG ACAGTNTCTC AAGGAAAGGT GGACCTAGGA ACTCCTGAAC
 TTTTGGGTTG CCTTAAGTGA GAAATCAGCA TGGCTCAGGC AAGTCTCTG GCTTGTGAAG GCCTAGCAGG TGTGAGTTTG
 GTTCCCACTG CAGCCAGCAA GAAGATGATG CTGAGCCAGA T

SEQ ID NO:1769: (Length of Sequence = 389 Nucleotides)

CAACTACCGC AGCGCAACT TCAGAGAGCA CATCCAGCGC CGGCACCGGT TTTCTTATGA CACTTTTGTG GATTATGATG
 TTGATGAAGA GGACATGATG AATCAGGTGT TGCAGCGCTC CATCATGAC CAGTGAGCAG AGTCCGTGCT TGCTATCTGT
 CTCATGTTAC AGAGCTTCCA TTACATATTA AAGTGAAAT CTATGACTCC TGTACCTTAC CTGTTCAACA GACCTGAAAA
 TGAGCCATGG CATTGGGACA GGGTCAC TTCAGAGGGA AGTGGGTCCC CAGGTCAGCC CTCTCTTCC CTTTGGGCTC
 TTGCCAAAGN TGTCTTCCCC TACTGTTAAN CTGTTTGTG ACACGGTGA GTTCGTATTG GGTCTCGG

SEQ ID NO:1770: (Length of Sequence = 394 Nucleotides)

GCAGTTTAGA GGAAGCTCCT TCTGGGCAAG GTCAGGCGGT CCTCCTTCCC TCTCTCCTTC CCTTTGTCC CAGCCTCAAC
 TGACTCTGGC TGTGGGAGGT GTGGAGGCTC CTTAGGCTTC CCTCCCCAAC CTGGCCTCCA CCAACACCCC TAACAGGAGG
 CCCGTGGAAG GCTCAGCCTC TCCTCCGCAT CCTCCTCCT TCCTGCCTAT CGGAGGGAGC CAGGGTCCCC TAGGCTGACC
 CTGAATCCTC TTCTCCCTT CATGGGAGGG GGGCAGGAAT CCAGAGGAGG ATGAAGCCAG CGGGACCACA TGGCTTNGTG
 GCTTNGACAA ACAAGCTCAG GGAGGAAATG AGGAGGCGNC GGCTTCAGAG GATTGCAACC CTGTTGGGCA CAGA

SEQ ID NO:1771: (Length of Sequence = 373 Nucleotides)

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CAGAAAAGGC AAAGTTTATT CCAGTGTGA CAGAGAGAGG GTGAGCCTTG CACAGCAATT CTAAAAACAT GTCATCTCCT
 TCACCTAAGA GGTAAAGANCC GGCTGTAAAGT CATGGGGTCA CTAAACCGGC CGCAGTTACA GTAAGCAGAA GAGGTCACGG
 CTCAGGCCCTT CTCAGACTTT CCCTGGGACA CACGGCTCTC TGGGGGGGCC CGGCGAAACC ACTCGGACCA GGAGCCATCG
 TACACGGCCA CATCAGGCTT NCCGAGAGG TAGGCAGCCA AGGNCACGTG GCAGGCGGTG ACTCCCTTGC GGCAGTGGC
 AATGAGAGGC TTCGAGAGAT CCACCTTCTT GGGCTTGAAC AGAGCACGGA GCT

SEQ ID NO:1772: (Length of Sequence = 281 Nucleotides)

AAAGTGCTGG GACTATAGGC GTGAGCACTT GCATCCGGCC TAGGTGGGGT TTTGTCCCG TTCTGCAGGA GGGAGACTGA
 GGCTCGGAGG TTCAGGGCCT GCTTGGCTGT ACCCAGCCCC AGTATGTGCC TTGGCCACAC TAGTCAGATC CTTCCCTCC
 CACTCTGCC ACCCTGCTCC TGCCCTGTCC CATAATCCAG GTTGAATGGG GGTGGGGATT TTNGGGAGCA AGGAGGGCTC
 AAAGAGATGG AGATAGGCT GTTGTGAGC CAAAAGTGCA A

SEQ ID NO:1773: (Length of Sequence = 401 Nucleotides)

CTCTCTGCCA TGCTAACCAA CGTAGAAGAG AATAAGATAA AGCAATGAAA AGCAGAGTGG CACTCTGATA TATAAGATT
 TCTAAGAAAT ATAGAGTGAA TTTTGCCCAA AGGCCCTCAC TGAACCTAATT CCTGAACCAA AAGAGTATTT CTTAATCCAA
 AACTTTACAG TATTAGACCT ACGAATTCTG ATGATGCCTG ATCAGATGCT AGTGTCTCTC GACAATCCAT GCAGTTTTCC
 AGTATGAAGG AAAGTAACAA ATATACCATG GTTATCTTA TTTCTTCTG AAAAATATCT AGGATATTTT ATAGTGTCT
 GTGGTAAAAT ATTCATTGA CANTCACAAT GAAGTATAAT CAGAAGTATT AGCAATTTTA CTTGTATTAT CCGTTAATC
 C

SEQ ID NO:1774: (Length of Sequence = 230 Nucleotides)

TCTGTAAAA AAAAGTAAAA ATGTTACACA TAGGNAATAA ATGTAAAAAG CTATACTTTG CCAAATAAA GTTTCAGCTG
 AAGGTAATGC TAGTTATAA TTAAATACAA TTCTATTAG NNCTTGCAA AGTCAAAGGA AGACGGNAAA CTCCTCTTT
 TGGCAATTCA AAGGCAAAGA CCGTTCAAT TATTCTTAAT TTINCTTAT ACAATCATT TCCCCACAG

SEQ ID NO:1775: (Length of Sequence = 359 Nucleotides)

ATTGAGGACA TAGGCATGGG CAAGGACTTC ATGACTAAAA CACCAAAGC AATGGCAACA AAAGCCGAAA TTGACAAATG
 GGATCTAATT CAACTAAGA GCTTCTGCAC ATTAAAGAA ATTACCATCA GAGTGAACAG GCAAACTACA GAAAATCTAC
 CCATCTGACA AAGGGCTAAT ATCCAGAATG CTACCTAAT TTTAAAGACT TTTTCCGGCA TCTTGAAAAA AACCACCAT
 ATTTGACATA GGTAAACTG AAAAAACAAA CTATTCATAA TTACAATTG TGACACATTA TGTAGTAGCT AGGTTTCATCA
 CATAAATTAC ATGATACCCC AGTTCAAGTT AAATTTTCAG

SEQ ID NO:1776: (Length of Sequence = 375 Nucleotides)

GGCAGAGGCT GCAGTGAGTC CAGATGGTNC CACTNCACTC CAGCCTGAGT GACAAAGTGA CACTCCATCT CAAAACCCCA
 ACTCCCCCA AAATTTTTAA TTTGGTTTGC ATTTCTTTGA TTATGTTTGN GGTGATGTA GACTTGAGGC TGGCACTGGA
 GCAGGCGTTC CCACCTGTCC CGTGAGGCAA AGGTGCTGGG GAGTGACCAA GTGCATCAGG GGGTGAGAT GCCTTATTCT
 GGCTCTTTCA CGCTCAGCCA TCTTAGCATA NGTGAATATA CCATGAGCTG TTTCTCAGCT TGTTTTATTT TCTGGNGAG
 ATAGATGTCA CTGGAATGN CTNTTCCAA GTGAAAGGCC ATCTTGIGCT ATGAC

SEQ ID NO:1777: (Length of Sequence = 387 Nucleotides)

GATAAGGGAG GAAAGGCAGG AGGAGATGAG GCCAGCCCCA CTGATGACAC CTTGGGCCAG GCCTCAGAGC TGCAGGCATC
 AGCCGGAAAC TCCAGGCTGC TCATGGTCAC TGGCGGTGCT GAAGTGTCTC TCCACTTTNT TTTGGTCTT GATCTTGAGT

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CCAATGTCCA CTCTCTTCTC AAAGAAGTTC ACCAGCACGG ACTCCGTCAG GATGGAGGCC AGGTTCTGCT CAAAGGAGAT
GCACCACTCG GTGTGACCGG TGCCGCCGAT GCGCGCTGTG GGGCTGCAGG CCTNCCCGCC CACCAGCACC GTGTGCTCTG
CAAGGTCTTC ACATTGCAGG GAGCCCGTNC TGACCACCGA GTAGGAGGAC ATGGACATGT CGTCTTT

SEQ ID NO:1778: (Length of Sequence = 297 Nucleotides)

CCCCCAACT AGAAGAATAC AATTAAAAA AGAGGCAGTA CACATGGTTA ATAAACAGAT GAAAAAATTA AAATTCACIT
GTACTATAAG ACAGGCAGAT TAAATTATTT TTACCTATCA AATTAACCAG AACAAAGGCA TGCACITTAG TGAGGATGAG
GAACATACAG ATTCACTGGT GAAAGTAAAT GTACACACAA CCTTCAAGT TGATAGTTTG GCAGAAGTTG CTAAAAACAT
TTAAAGCTTT CATACTTTTG ATAAGGCTTT TTATTTTAGA AAACATATAA ATAAAAA

SEQ ID NO:1779: (Length of Sequence = 353 Nucleotides)

CAGAAGTAAA AGATTTTAT TGTCTATAG ACACTTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAWT
GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGGAAAA AGGTGCATTC CCTAAGCTG AGGGGGATGG AATTTTCAGAA
CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTATCTTTT AAAACAGTTC CCAAGCTTNG
NGGAAAGCAA TGAGCTCCAC CCTATTCAGC AGA

SEQ ID NO:1780: (Length of Sequence = 428 Nucleotides)

CGGCTTCCCC GGAGCAGCCG ACAGGGCCAC AGGAGAATGG TATGCTGCTC GGCATGGAGT GAAGACCACC CCGTGTGCAA
TCIGTTCACC TGTGGGTTTG ACCGGCAAGC CATTGGITGG AACATCAACA TCCTGCATT GCTACAAGAA AAATAAGGAC
ACCGGCAGCC CTTAGTTTCA CTGTTTGCCA GCACAGACCT TTGATGGGTG CAGGCTTTTC TGCGTATTAA TCAGCCATTT
TTGTGAGAGT TTGACCTGG AAAGGGTGTCT TTGTATATGT TCTTTTACA TAGTGCCTAG CTTGCATGAA ATGTACAGAG
AAATGTGTGG TCGTATTTTT TACTTTTGTCT TTGTATATGT ATGGATAATT NGGGTCCCTT GGGCAGTAGA GGCAAAGCTC
ACCTCCCATG TAGCACATGA AAATGCTT

SEQ ID NO:1781: (Length of Sequence = 459 Nucleotides)

ACCTCAGATT GTGAAGGGCT CTGTAGGCTA TGTTAAGGAC ACTAGAAATC TATTGAAAGG TTTTAAGCAG AGAATTGACT
TGCTCATATT TTINCTTCAA AAAGCTCAAT AGCTACAAAA CGGTCAATAG ATGGTAGCTT TGTTGGGGCTG GGGTGAATGC
AATGATATTG CAAAACAAGA TATAGGGAGA CAAGAACTTT TAATAACCTA AACCAGTGGT TCTCAAACCT TCCATGCATC
AGAATCACCT GGATGACTTG CGAAAACACA AATAATCAGA CTTAATCCCT ACATTTTCTG ATTTAGCAGG TATAGAATGA
GGTTTAAGAA TTCTAACAA GTTCCAGAT GCGTAAGGT GTCTCTCAGG GTTTTACTT GAGCAACTGG GTGGATCCNG
TGGATCTTAT GTCCCTNCGA GTAAGGGGTC AGGTACAGCA TTCTCCGGTC AGATTGTTT

SEQ ID NO:1781: (Length of Sequence = 420 Nucleotides)

GAAAGCACAG GAGCCTGCTT CCAAGAGGG ACTGTCCCGT AATTNAGAGA TGCTCCAAGG CTGACCATCC TCCTTCTCCT
GCTGCACACC CAGCAGCCAT CTATGGCTGG ATTTGGAGAA TTTCTGGTCA AACCGGTGAG TATGAGGAGA GCAGGGCAGT
TGGGGAGAGA GGTCCAGCC CAATTCTGCC CAGAGAAGCT CCCAAAAGAG AGGGAAGTGT CCTGATGAAG AGCCCATGAA
AGGGGTGAGA CCCAGGAGGC TGTGGAGATT GCTGCGGGCT CCTCTGGTCA GTAAGGAACC CTGACAAGAT CCCTAGGATG
GGGGTCCCTT AGTCTCACTG AAGTCTTGT AACTINGGAT TGGGGCCAGG TCANCTCCT CTGATACCCG AGCTACAMAT
CTGGCTTCCC AMTCTAGAG

SEQ ID NO:1783: (Length of Sequence = 427 Nucleotides)

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AGAGCTTAGC ATGCTGTTGG TTCATGTTTT TATGTGTTTA TTTCACATTG ACTTTTGCCG TGAGCTTTGA GGGAGACAAC
 ACCATCACAT ATGTGTAAAT TGTAAAAGAA TTGGGAGAGA ATAGCTTTGG GAGATCAITT TCTTACTGGC CATGATGAAG
 AAAGCTGTAT CGTAGGAAAA TTACTAGGTA ATTTTACTCA CTTGATAAAG TTAATTTGCA AGGTATCATT CGATTGGTAG
 AGTTACAAA ATGAGAGTTA AAGAAACAGA AATATGGTTT CAGTTTATGG TGCATTCTTA TCTTTTTCAC TGAGTCTATT
 TCTGTCTGGT TGCTTCACTT AGTACTCCAA CCAGACAAGA GGAAGACAAC TATGCTAGTG TTTTAGGAAA TGGGACAGAA
 TGGGGTGATT TAAGTAGGAG CCNGGGT

SEQ ID NO:1784: (Length of Sequence = 428 Nucleotides)

ATGGGATACT AATGCAAGCA TTCAGTGAAA AAAGTAGATT ACCAACTIAT ACGATCCTCA TTTATTTTAA AAAGTGATAT
 CACCCAGAAA AAAATAAGAA AGATAAAGA TGTGTGTAAT ATAATAAAG AATAAAAAATA TAGGGGAAAA GGTAGCCAAG
 GGATAGATAT TGATATTCAT TTTCTTTTAA CAACTTTATT AAGTTGTAAT TTGTGTGCAA CAGATTGCAT ATATTTGANG
 TATATAACTT GACTAATTTT GACAAATATA TACACCCATG AAACCTACCAG TTATAATTTT AAACATTTTC ATGGCCCTCC
 AAAGTTTCCT TGTCCTCTT TGCAATACAC GCAAACACAC ACACCCACA CACAGTATGT AGGGCAACCA TTGATCTGCC
 TTCTGTACA ATAGGGTAGG TTTGCATC

SEQ ID NO:1785: (Length of Sequence = 414 Nucleotides)

GTAAACAGAT TACATTTGAA CACCTAAATA AGTATTTGTT TCATAATCAT TACATGCTTG TTTATGATTT ACAAGATTT
 GGTAGAGAAA AGTACAGTCC TTAAGGCATA TATATGCCAA TGCAITTAAC TACTCAGCTT TTGTGCCAGC TCAGGTGTTT
 ATAGGAACAG GAATGTGGAA TACCAGCTTT TACTTTTAAAT TATACTTTTA TGCTGAATTT TTCTTCCAGT TAAACCTTTA
 ATTACACTAG TATGTAAAGT AGTTACTGAG AAAAATAAGT TTTTGATTTT CCTTCTGTTG GATCTGTAAAC ATTTTAAAT
 GGAGCTATTT AACACATGAC ATGCTAATGT TACTTAATGG GTCTCTGCAT TTTAATTTTA NGAAACACAA ACCTGGGTCA
 CAAAACATCT TCAG

SEQ ID NO:1786: (Length of Sequence = 397 Nucleotides)

GTTATTCCAA CCAAAATTTT CTAAGATTGA AATGCAGAAA CTTACAGAAT TGAGTAAAAA GACAAAAACG TAAATACTAA
 ATATTGAAAA GATGCAAGTN CTCCCCAAT AACTCATAG ATTTAATAAA ATTCAAATTT AAAGGCAATT AATTAGGGAT
 GAGGCAAGAA TCTGGGAAGA AAATTAATCT GAAGTTTGTG TGGAAAAATC AATGGGTGAA ACGAAAATAT TTTAGGATAA
 GATTAATGAG AAGTAAATTT ATTTCAATTA TAAANGTAAA ATGATAAAAT AGTTAGACCT ATATGGTACT GATGCCAGGN
 ATGTTATACA AAGCTACGTC AAGGCTTGAG GATAATTTTN TTGAAGATAT TCGTGGGTAT CTCATTGGCT ATAAAAG

SEQ ID NO:1787: (Length of Sequence = 408 Nucleotides)

TCCCACAATT GACAATATAT ATGCATGTGT TTAAACCAAA TCCAGAAAGC TTAAACAATA GAGCTGCATA ATAGTATTTA
 TTAAAGAATC ACAACTGTAA ACATGAGAAT AACTTAAGGN TTCTAGTTTA GTTTTTTGTA ATTGCAAATT ATATTTTINC
 TGCTGATATA TTAGAATAAT TTTTAAATGT CATCTTGAAA TAGAAATATG TATTTTAAAGC ACTCAGCAA AGGTAAATGC
 ACACGTTTTA AATGTGTGTG TTGCTAATTT TTTCCATAAG ANTTGTAAAC ATTGAACTGA ACAAATTACC TATAATGGAT
 TTGGGTTAAT GACTTATGAG CAAAGCTGGT TTGGCCAGAC AGTATACCCA ANCTTTTATA TAATATCCAG ANGGCTATCA
 CACTGTG

SEQ ID NO:1788: (Length of Sequence = 391 Nucleotides)

CAACTTGGAA CAACTTTTAA TTTTGAATGC TGGTCTGATC AGTCCACGGC CAGGGGTAGG TGGTAACTAG AAACAGCTGG
 AAGGAGGGAA GGAGAGGGGA CCAGCAGTCC GCAAGCAGGA GGAAAGGAAA GGGTTGGGGA CAGGAGGAGG CAAGGCTGAG
 GAAGGACCCA GCCAGCTGGG TGTCTGCCCC GGCTAGAGAA CGAACCACCC CCACCCACCA GGCTACCCTC CATCTGTGGC

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TTCAGTGCAG AAGTCAGTCC AGGTGGGTTC AGGCCCATGC CACCTTCTCT GGCCTGCACA GTCCACCCCC AGGCAAGGGG
TTCTTTCCAG AAAGGCTAAA TGCTCTGTCC TAANCCTNGG AAGTGTCCCT TTCAACTAAA CCCCTGGCCT T

SEQ ID NO:1789: (Length of Sequence = 312 Nucleotides)

CAGGGTGAAG TGAGCCTGTG TGGGAAATGA GTCTAGTGTC AGGAGGCTG GCTGCTATAA TGATATTTAT CTCACAGTTT
ATATTTTCATT CATTATATTT ATTTTTTTAA AAGGTTTCTT TATCAGCTAC TAAACATCTC AGCAATTTGG TGTGCATAGC
TCTAGATTAA GCAACAAAGA ATTGTACTGA TAACAAACCA CAGGGGAAAT GGTGGTTAGT AAGAGTCAGC CTTATAAAAT
TTACATCCAC ACTGTTTCAC AGCAAGATTG CTCTCTCCAA AACGTAGCCA TCAAAAGCAG CAAACAAACC CT

SEQ ID NO:1790: (Length of Sequence = 281 Nucleotides)

TGTTTCCYTC ATTAGCTGTA GACTATCCCC TCTCCTCCCA CCACAWIGTT TCTWIGATGA KTTACAAACA GAAAGGAAAT
CACATTTTCA TACTAAAAAC AAAATGWTCA GAGCCTTGAT TTYTCCACTA GAWACTACAC GTACAGTTAA GAGTCCACAT
GCAACACCTT AAWTCACAGA CTGAGACCTC ACATTYTGAC CTGGAGNTTC CTCCCCTTCC CCAGCCTTGG GCTAGCTTTG
GCCTAGGCTC AKGTAATACT GACACCCACA GGCGCTGCTC T

SEQ ID NO:1791: (Length of Sequence = 261 Nucleotides)

AGGCAAAGCA GAAAGGTGTG TTIGCCAGAC CAGCATGGGC AGCTCAGAGG GAGCAAAGCA TCCACCAGAA GAGGCTCTCC
ATTTTTTTGT AGGGCCTGAC AGTTGAGATT TGAGGCTGAG TTAACAWTGG GACCACTGAA CTTTTTTTCCA ATGGAAAAYT
CACGGCCCAG TCCCACAGGA ACTTTGCGGC ATACCAAACA ACAWTGAGGA AGGAAGGGCC GGGTGGCTCT ACCAAACAKT
TCAGGTCCAC TGGGTGAWTG A

SEQ ID NO:1792: (Length of Sequence = 324 Nucleotides)

CTCCATCTTT ATCGCTGTG TAAACATCTC TGGTCTGTAC ATACATTTCA TACATCGTAG GGTGGGAAGC GAGGGCCAAA
GGGAGGCCCC GCAGCACAAC AGCTCACCCG CTTTCCCTAC AGCCCTACCC GCTCTGTGCA AACCAAGGCC AACAGCTCCT
GCTGCCTCTT CTTCCCTGGA AAAGTCACTG TTATGGGGAG GGGGCCAGGG GTTGAAGGAT TAGAAGGAGA TAGAGGGCTT
GGTGGGGAGG CCACATNTAA GTCCTAGATT CAAACACTGA AGCGAAACAG GCAACTGGCA CAAGCAGCAA GCTTAGGCAT
GGGC

SEQ ID NO:1793: (Length of Sequence = 386 Nucleotides)

ACTCTTGGGG ACCCAAAGAT GTCAGGTCCC CATACTCTGA GGAATCAGGA CACAGCCCAG TGCCTGACAC CACAGAGTGA
GGCAGCCCTT CGGGTGAGGG CCTGGGCCTC GAGGGATGGC AGCCACCACT GCCTAGGCAA ACGCACCTGG GGCTGAACCT
GGCGCCCGGC ACTTTNAGGA CGCCAGCACC AGTGGGCACT CGGAAGTGCC AGTCTTGCC CAAATTTGGT GACCTGGGTC
AGAAGGACCT TTCAGAATGA NTGTTCCCG TCAGCAGATA CCGTCAAGAC ACGGCTGGCT CTGAGAGGGG CTGGGTGCCC
GTTTTGCCTG TATTCCTCTG GGGGCCAGCA CGTCTCAGAG GGTGTCCCTG TGGGTCCCCG GGGTCA

SEQ ID NO:1794: (Length of Sequence = 308 Nucleotides)

GGATGCTCTT TAAACATGC AAATTGGGCC GGGCACAGTG GCTCATGCCT GTAATCCCAG CACTTTGGGA GGCCGAAGTG
GGTGGGTAC CTGAGGTCAG GAGTTCAAGA CCAGCCTGGC CAGCATGGTG AAACCTCATC TCTGCTGAAA ATACAAAAAT
TGGCCAGGCG TGGTGGCATG TGCTGTAAAT TCCAGTACT CGGGAGGTTG AGGCGGGAGA GTTGTITGAA CCCGGGAGGT
GGAGGTGCA GTGAGCCGAG ATTGCACCAT TGCATCCAG CCTGGGGTGA CAGAGCGAGA CTCTGTCT

SEQ ID NO:1795: (Length of Sequence = 418 Nucleotides)

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GAAACGCTAA GGTITTTGACA GCGTTACAGT GAATTCTCCG GCTGTAGAGA TTGGAGGAAG TCGGGAGAAA TTCGTCTCTA
AGTTGTAAGG TGGAACAGCA TTCATTTTCT TACTGCCAAT GGAGGTTTTT CATGAATTTA CTAACCTCAGT AAAAAGATTTC
GGCTTTTTTT TTTTAATCTT AAAGGATCAC GCTTTAAACC TCTGTAACAA AGTAATTATT TGTACCACTC TCTACCCAC
CCTCCAACAA AATAACCTAT CGGNTCTCAG AAAATAATAA CCCTTTGCCT GCCTTTGAAA TAGTTATCCT TTTTAGTATG
ACAGTGTTC AAAATTCTTT TCTTAGACTT GTAGCAGAAC ATAGCTATGA TGATCTGAAT TTTTCTCTTT CAGCTTGTTT
TAAGACGAGG GGGACTCC

SEQ ID NO:1796: (Length of Sequence = 416 Nucleotides)

CTTTATTACA TATGCAACCT TGCCATGCCT GCCAGTTAAC TCCCCTCCCG CCAATGTTAT CCTCATGATA TCAGCTCCCT
CTTGGGGCCA CTGAGCTGCC CCCCTTTCCT TCTGGGCTGG AGTAGTGGTG CCCCTCAAGC AGGCAATGGG CAGGGGGAGA
TCCACAATTA ATCGTCGAG TTCTCTTAAA AGTATTAACT CTTAAATAAG CACTCTTGGG GAGTTGCAAA GGATATTTCAG
GATGGGATGC AGTGGGAGGC TACCCCTCAT CCAAGGTACA GGCTGGAATG AGCTACAGCT GGGTCTATCG TGGGCCTCAG
AAGGTGAAGA GGGACCCTAT TCTGGGGCTT AGTGTGGGTG GGGCATATCC TCCCCTAACT TGTCTGTGG GCGATGTTCT
TCACATCTAG GAGAGC

SEQ ID NO:1797: (Length of Sequence = 298 Nucleotides)

AGGAGGGAAA CCAGATCAA ACTACTACTT CTAGATGAAC ACAGGCTCTT GAGAGTCCCC AAGAGAGGAG GCTGTTGATC
CAATCTGAC TCAGACTACC TACCTGGCTT CCTGGCCCTA GGAGGTAATA ATGATAGTNT CAGGGGGTCC ATGTAGCAAT
CCAAGCAATT CCTGAGGTGA GAGCAAGCAA AGAGGATAGG ATGAAGGGAA GGCAGGCAAA GAATGTGCTC CTAGTAAGAA
GCAACTCTNT TCCACTCACT TCCTTTTGCT CTNTGGCAGG CAAGTCAACT GGGTCTC

SEQ ID NO:1798: (Length of Sequence = 245 Nucleotides)

CTGGTCCATT TTTACAACAN ATACATCCAA AACACTATAT AATANNITTT TTTACAACAT TTCCAAATGA GAAGATTGCT
TTTNCCTCCA CTACTGCTAT TCACACACAG TACTTCCAGC GCACAATACA TTAGGAGATC TAAANTGCT CACCTGTAC
TCTAGGCTGC TTAGGAAATG TGAAACTAG NAACATTTAT AATGGCATT GCTCCTTTCA ATACAAGGCA ACATTTTAGN
AACCT

SEQ ID NO:1799: (Length of Sequence = 312 Nucleotides)

GAAATGTTAG GCTAGTTAGA AGGACACGGC AATAGCCTTG AGATTYTCAA CCAGGGTAGT GTATTAGAWG TAAAAAGGAG
AGGAAAGATT TGAGAGTTAT CTCAGAAACA GAACCATCTA ATTTTTTTGG ACTGATTGA CTGCTCTTC ACTCATTTTT
TTATTCATC AACAACTATT TTTGAKTGNT TTGGATGGGT CAGACATTGC GCTAAGTGAA AAATAGGAAG GTAAGAAAAA
GAAGACTCTG AAGATGAATT CCTCCCCAA AACTGAGCTA CTAGCTATTA CTCAGTGGGG CTGAAGTGAC AC

SEQ ID NO:1800: (Length of Sequence = 309 Nucleotides)

GGCATGTGAC ACTAGGCCAC AAGCGATAAG CACAGGCACC TGACTTTTAA GTTTTGTGTT GTTGTGTGTT TCCCAAAGTG
CTGATAACAA TAACAACAAC AATAGGATTC CAACAGGNG CCTCAAGTGA CAGCCAGGNA GAGACCTGAA GGTGTTGGCC
ACCACAATGC CAAATCGTTT CTAAAGGAAG CTGAAAAATG GGACTGTCTT TTGCCCACTT CGTTGTGTTA AAAGGGGACA
TTTGTCNAAA CTNCCCAACC GAGTTCTAGA AGTCTCTGAC AAGGAGGCAG CATCCAGCCT TGACCAAGC

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SEQ ID NO:1801: (Length of Sequence = 166 Nucleotides)

CAAAANTTAC TCTGCAAAT TAATATATGA TTTACCTGCT GTTTCATAA GATTTCAAA TAGACAACT CGGTATGCTT
 NCGATTGCT TTACATTCTA AGTGGATTG GAGGTCAGG CAGGCGCAA GGAGTACCC GAAGTTTCAT CANGCGGAGA
 TGTGG

SEQ ID NO:1802: (Length of Sequence = 281 Nucleotides)

GGTGGATGTC TTTGGGCGCA GGATGGAGCC CAGACCCAGT GGTACAGTG TGGAGCTCTC TCCCTGTCCC CTGACTCTGG
 CCAAGGAAGT GAATGCAAAG CAGCAGGGAG GAGGCAGGT GGGGACGGC CTCTGAGCTC TCCGCGATGG CTGGCGTGAG
 GTGCCCTCTAA GACTTCTNGG CAGCCCTGCC TTCCCTACTC AGTCTTCCCG ATCTTNTTGC CACCTTTCTG TGTGGGCCAG
 NCTCCCGCCA GGTACTCAGA GGCGCTCAG AGGCAGGT T

SEQ ID NO:1803: (Length of Sequence = 429 Nucleotides)

TTACAGTTA TAGTTGGGA CATTACAAC CCTTCTCAA TAATTGATAG ACTACTAAAT AAAAAACCAT GAAGGATATA
 CAAGAACTGT ACAACACTGG CCGGTGTGG TGNCTCATGC CTGTAATCCC AGCACTTTGG GAGGCTGAGG CCGGTGGNTC
 ACTTGAGGTC AGGAGTTGA GACCAGCCTA GCCAACATGG CGAAACCACA TCTCTACTAA AAATACAAA AAATTAGGCT
 GGTGTGGTT GGTAAATGC CTGTAATCCC AGCACTTTGG GAGGCCAAGG TGGGCATATC ACCTGAGGTC AGGAGTTTGA
 GACCAGCCTG AAAACATGG TGGAAACCCA TCTCTACTAA AAATACAAA ATTAGCTGGG TGNTGTGCGT CTGAAAAAT
 TAGGTAACT CCGTCTCAA AAATAATAA

SEQ ID NO:1804: (Length of Sequence = 278 Nucleotides)

GACCTGAAGC TCAAAGTCTC TCTCCTTACA CAACCAGCGN CAACAGGGCC AAGCTACTGG CTAAGAACAG ACAAACTTTC
 CTGCTTCAGA CCACAAAGCT GACCCGNTT GCCAGACGCA TGTGCAGGNN CCTNTTACAG CCAAGGAGGG CCGCCCGACG
 GNCTTATGCT CCTATCAATG CCAATGNCAT CAAAGCAGAG TGCTCCATTC GNCTTCTTAA GNCNCNAAG ACTCCATTNA
 AGATTACCC TCTGGTGGC GCTGNCCCTG GGAATAT

SEQ ID NO:1805: (Length of Sequence = 349 Nucleotides)

GCATCCATGG CGGAGGGCGG CAGCAGAGG GCGGGGCTCC GCAGGTCGTA ATCTGAAGGA GTGGCTGAGG
 GAGCAATTTT NTGATCATCC GCTGGAGCAC TGTGAGGACA CGAGGCTCCA TGATGCAGCT TACGTGCGGG ACCTCCAGAC
 CCTCAGGAGC CTATTGCAAG AGGAGAGCTA CCGGAGCCGC ATCAACGAGA AGTCTGTCTG GTGCTGTGGC TGGCTCCCT
 GCACACCGTT NCGAATCGG GCCACTGCAG GCCATGGGAG CTGTNTGGAC TTCTCATCC GGAAGGGGGC CGAGGTGGAT
 CTNGTGGAG TAAAAGGACA GACGGCCCT

SEQ ID NO:1806: (Length of Sequence = 403 Nucleotides)

GTGCACTGTG GCCAGATCTT TTCTAGTAAA ATGTGTGTTA CTGATGGGCA GACAGCTCTC ATTCAAGCAG TGACAGATGT
 AAGCCTTCC CATTTTGTG GCCCCATTGT ATTACAGGTG TGGCTTCCA GTTGCCTGGG ATCATCTCCA CCCAGACTAA
 GGAAGAGGAA AGAGCTTGA CAACTGCACT TGGCTGTTT TNATGGATCA GGCAAGGAAT TGGCTCCAAC ACATTAGCTC
 ACATTCCATT GGTAGAACT GGGTTTCTCA ACTATTAGTA CAGGGTGAGT GTAGGGTTTT GGCACCATGG GCATTTGAGC
 TGGCCAAAGG CTAATCAGAG TTAGAACAAA GCCACAAAGC CTGTGAATGG TGTTATTGT TGTGAGGAGC TGTCTGTGTC
 ATT

SEQ ID NO:1807: (Length of Sequence = 426 Nucleotides)

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GTCTCTCAGCT TCACTCTGGC ACCACTGTGA GCACCGGGAA ACCTACCAGA AGTTGCTGGA GGACATCGCT GTCCTGCACC
 GCCTGGCTGC CCGCCTCTCC AGCCGAGCTG AGGTGGTAGG CGCCGTCCGC CAGGAAAAGC GCATGTGGA AGCAACGGAA
 GTGATGATGC AGTATGTGGA GAATCTAAAG AGGACGTATG AGAAGGACCA TCGGAGTCA TGGAGTTTAA AAAGCTTGCA
 AATCAGAAAT CAAGCCGAG CTGTGGCCCC TCTGATGGGG TCCCTCGCAC GGCACGGTCC ATGTCCCTCA CGCTGGGAAA
 GAATATGCCT CGCCGAGGG TCAGCGTTC TGTGGTTCCT AAGTTTAAAT CCCTGAATCT GCCTGGGCAA ACTNCCAGCT
 CATCATCCAT TCCTCCTTAC CAGCTT

SEQ ID NO:1808: (Length of Sequence = 431 Nucleotides)

GGTACTTTTC CATTTAGATT CAAATGGAGC TAAAATTAAG AGTTTTATGA GCTGTTAAGA ATGAGGTAGT TTCTCCTAGG
 ACCCCCCAAA GACAGTCAA GTAATGACCG TTTGGNTCTC ATTCTGCGAT CTTTGATAGT ATGTNCTGGA GTCTACTCCC
 CAGGAGCCAG GACAGGCGTG AAGATGGAGT CCTGTGCGCA GCTGGAGCCT TGCCTAGCTG GTGATCACAC AGCCTGGNCT
 GTACCTGCAC CCCACTGGAT GGTGGTACAT GGTGGCAGGG ACAGGACCAC ACCCAGTTAA GGCCAGACCA GGCTGAGTGT
 GACCCCTGAG GTAAACACTT CACTAAGCTG TGTCTTGTTT ATGCCCCCTG CTCAGTGAAA GGTGAGTCCC GAGACCAGTT
 GGGTACCTCT CTTATGCGAA CCAGAGACAT T

SEQ ID NO:1809: (Length of Sequence = 401 Nucleotides)

CGTGAGGCCT TGAGCACAAG TGCAAGCGGG ACATCCTGCT CGGCCGCTC CGGAGCTCGG AGGACCAGAC CTGGAAGGGG
 ATCCGGCCCC GGCCCACTAA GACCAGCTTC GTGGGCTCCT ACTACCTGTG CAAAGGAGGA GATCGACGTG TGGACCGAGG
 AGCGGAAGGG CACCCCAAC CGGACCTGC TCTTCGACCC GCTGGGGGGT GTTAAGCGCG GCAGCTCACC ATGCCAAGC
 TCCTGAAGGA GCACCAGGGC ATCTTCACCT TCCTCTGCGA GATCTGCTTT GACAGTAAAC CCGGATCAT CAGCAAAGGC
 ACCAAGGACT CTCGCTCTGT NTGCTTCAAC CTGGGCTGCC AAGAACAGCT TTTTACAACA ACAAGTGCCT GGTGCACATC
 G

SEQ ID NO:1810: (Length of Sequence = 233 Nucleotides)

AAGTGCTATA TTCAATGTAT TATAGAGAAG GTTGGGGAGC ACAGAAGAGG ATCAACCCAG CTTTAGAAGG ATTAGAGAAA
 GCTTCCAGAG GGGTGGACAT TTGAGCTAGC AAGAAAGCAC AAGGGAAAAG GCATTTAGAC AGAGGAGACA ATTGTGCTGT
 ACCCAGAAGC ATTGGGGTAT GCTATGCATG GATAGNCAAA GAATTTTTTC AAAAGGGGGG CCAGCAAGGC ATT

SEQ ID NO:1811: (Length of Sequence = 423 Nucleotides)

CAAAGAAAGA GTTGAATAT GTACATGAA AAAAGGAAAG ACATTTTTTC ATACCAACCT TTCCCTAGTT CGCAGTTTCT
 GAATAGTAGA AACAAAACAC ATTTTAAAT CTTTCTATCA ATTTAATTTA GGACGAAGTA ACACAACCTT TATAATTAAAC
 CACTGAAGTT GTCTTTAAGG ACAAACCTTA AATTTTAAAA TGGGTGTTAC CATATTINAT GAGTGGACTG ACTCCAAGGT
 TGCCCTGCTC CAAGNNTGGG CATCGTGACA TTGCCGTGAT GCCAGAAGA AAGTTAATGG CAATGATGTC CAGTCAGAGG
 GCAGACATGC TACACATCAC AATGATGAGA GCTGCGGGAT TCTGCCCTCT TCAACTTCCA AGTAGNAAAT TATTATTTTC
 CATTCAAACCT AACTGGGAGT GAG

SEQ ID NO:1812: (Length of Sequence = 394 Nucleotides)

GACCAGCCTG GCACTTAGT GAGACTCTGT TTCAGGAAAA AAAAAAAAAA GTGTATTGG CTGTTCTGAA GCAGGCCATC
 ATCACCCCTC ACCTCACCCA CAGGTGGCTC TCGGGGGCTG GTCCATGGGC GGCTGTGGCG TNAGGATGGA GTCCTAGCTG
 TGACCTGTGC CCAGGAGGGC GTGATCCGAG TGAAGCCCCA GGTCTCAGAG AGCAAGCTGT AGCCAGAGGT ACCAGCTTCG
 CCTGGGGCTT CAAGAACCCT CCATCTATCC CCATTCTGA GACAGGAGTT ACAGTCCCTT TTGNNCTNA CATCCAATAA

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AGAGACTGAT ACCACTGGAG TGGCTGGCTT TTAATTCCTT TGGGCCAGAC CTGCAGCCTT GCCTTAATCC TTAA

SEQ ID NO:1813: (Length of Sequence = 344 Nucleotides)

CATCAGCGAC AGGTCTCCCT CCCAGAACCC CATCAGGACA GGAGAAAAGG CAGCAAGAGA GGTGGGGTGG TCCTGGCAGG
TGGGCCACCA GINTTCTGAA TGAAGAGTGA GTCCCGGGTC AGGAGTCCAC ATCAGGTGTG GGCTGCTTCC AATCTGTAGG
TTCTCCTGGA GATTINTACA ATCTGCCAGC TCTCTGGGAA TCACAGAACC ATCATGTCCC CTTAGGATGG CAGAAGATGT
GGCAGAGCCT CAATCTCCAA CACTGAAACA CTNAGAGAGC TTGATACGTT CCTTAGGCAG GGCAGAAACA TCACAGCACT
TCACGNTAGG AACCACGAAA GAGT

SEQ ID NO:1814: (Length of Sequence = 442 Nucleotides)

GACACAGCAG GCCCCTGCCC CTGAAGGAGA CTGCATTGGA ATTTTGTCCA GGTGGCCCTG ACACATAGGA ATGCCCACT
ACTGTGACTA CCCTCTGAGA TAAAAGCTG TCCTACTGAT TTTAGAAGGC CAAATTAGA GGTCAATTTG GAGGTCATGC
CAGTGGACAT ATAACAGTTT GAAATGCTTG TTCCCGGTG CCGTAAAGAA ATAGTACTTG AACTTAAATT TATTACAGAA
GGCCATTTTT ATTTTCTGCA GAAAGGGTAC ACTTGGCAGC AGTTTINCCA CGAGAGTACC CCGAACAAAG GAGACAGGGT
CATTTATAAC CTGACGCGTC CACCCTCTG CTGTGTCGG TTTCCATTGG CTGGAACAGG ACCTCACATT CTGTATTTGT
CCCGATTGGC TAGCAACTTA GGACTTATTA AAAGAGGCAA AG

SEQ ID NO:1815: (Length of Sequence = 299 Nucleotides)

GCAGAGAATC CCTTGAACCT GGNAGGCGGA GGTTCNAGTG AGCCGAGATC ACGCCACTGG ACTCCAGCCT GGACAACAAG
AAGGAACTC CATCTCAAAA AAAATTGAAA AAAAATTCAN GANATACAGA ATGCAAAANG GGACCAAAAA AGTACCAAAA
ATTTCAAAAT TTTGTTAAAC TGTACCAAAT CTGGNTACGA AGCGTTATTT TTGCCCACAG GGCACCTCCC TGGAAAGNCG
TTACAATAGC TNAGGCTTCC TCTTCAGATA GANTTAGAGT GGCACTAGGA TAGGCTCTT

SEQ ID NO:1816: (Length of Sequence = 286 Nucleotides)

ACCCCGGGTC CCAGGTATGC TCCCACCTCC ACCTGCCCCA CTCACCACCT CTGCTAGTTC CAGACACCTC CACGCCACCC
TGGTCTCTC CCATCGCCCA CAAAAGGGGG GGCACGAGGG ACGAGCTTAG CTGAGCTGGG AGGAGCAGGG TGAGGGTGGG
CGACCCAGGA TTCCCCCTCC CCTTCCCAA TAAAGATGAG GGTACTAAAG TTGTCTTGGT TTTTATTTTA TTATTATTTT
TTTCTTTTTT CAGTATACTA GCTTGTCTTT TAAGAAAGGG GATATT

SEQ ID NO:1817: (Length of Sequence = 320 Nucleotides)

GAAAGGAAGG CCAGGGTGGG AGGAAGGATC AGCTAAATCT GAGGGAAGAA GAAGGAAAGG AGAGGGACTA TTGCATAGCA
GATGCAAATG AAGGGACTGT CTTATTATAC AGTTTTATCA TCTGTAATA CTCATAATCT TGTTCTTTT TCAACTTTTA
TATAATTTTA TCTTACATT AGTTAAATCA AAAATCTTAA AACACATTTT AAACGTGGTC ATAGGTTACT TTTATATATT
ATTGAATTTA TAATAAACAT GTTCTTTTNC TGGAACTGG GATGGNACCN CGATGGTGTT TCTTGAATAT AAGAGTGTCC

SEQ ID NO:1818: (Length of Sequence = 356 Nucleotides)

CCCAGGAGGC TGAGGCAGGA GAATCGCCTG AACCCGGGAG GCAGAGGTG CAGTGAGCCG GGATGTGACC ACTGCACTCC
AGCCTGGTGA CAGAGCGAGA GTTCATCCAG ACACACACAT ATATATATAA TTNCCAAACA GGCTTTACTA AACCCCTGA
GGTCTCATGA CACAGTAGAA AATCATGATT TAGTAGAAAG AGCATGGTCG TAGGAATCCA GTAGATCAGT AGACCTGAGT
TAGAGTCCCA AATCGCCAC TTTCATCTG TATGGCCTCA GGCAAGTAC TTAANCTTTC TGCTCTCTG TTTCTTTAT
AAAATGGGG ATAATAATAG TAACTTCTTC ATAGGG

401

SEQ ID NO:1819: (Length of Sequence = 328 Nucleotides)

CCACTCCTGT AACCTGCTGG ATGACTCTGC ACTGCCCTTC TTCATCCTCA CCAGTGTCTT GGGTATCCTA GCTAGCAGCA
 CTGTCTCTT CATGCTTTTIN AGACCTCTCT TCCGCTGGCA GCTCTGCCCT GGCTGGCCTG TCCGSCACA GCTGGCTGTG
 GGCAGTGGCC TCTTCAGCAT TGTGGTGGCC GTTTTGGCCC CAGGGCTAGG TAGCACTGCG AGCTCTGCCC TGTGTAGCCT
 GGGCTACTGT GTCTGGTATG GCTCAGCCTT TGNCCAGGCT TTGCTGCTAA GGGTGCCATG CCTCCCTGGG NCACAGACTG
 GGTGCAGG

SEQ ID NO:1820: (Length of Sequence = 359 Nucleotides)

CCACCATGCT CTGCACTGCG NCTGGTACCA GGCCCGCGAC CTCATGCTCA TGAGCCACTT GCAGGACAAC ATTCAGCATG
 CAGACCGCC AGTGCAGATC CTTTACAACC GCACCATGGT GCAGCTGGGC ATCTGTGCCT TCCGCCAAGG CCTGACCAAG
 GAGGCACACA ACGCCCTGCT GGACATCCAG TCGAGTGGCC GAGCCAAGGA GCTTTTNGGC CAGGGCCTGC TGTGCGCAG
 CTTGCAGGAG CGCAACCAGG AGCAGGAGAA GTTGGAGCGG CGCCGTCAAG TCCCCTTCCA ACTGCACATC AACCTNGAGC
 TGCTTGGAGT TTGTTTANC TGGTGTCTGC CATGTTCTT

SEQ ID NO:1821: (Length of Sequence = 208 Nucleotides)

CCTGGGTCTG TGACCCAGAG TTCCAACACA AAGACACTTT GTACTGGAAC GCTGGAGCCA TTCCAACATG AACAGCAAGA
 ATAGAACCTG TGCTGGCTGG TCTAAGATCA AACCTCGNGA TGGTGGTTTG AAGTNCCTT TCAAAGAAAG CTTGAAAATG
 AAATCTCAGT TAGGCAAGNC AGATAAAAGC AGAGTTATTC TGGTGGCG

SEQ ID NO:1822: (Length of Sequence = 314 Nucleotides)

GGATGINTTG AGCCAGAGTT TAAGCCTGAC ACACAGGCTT TGGTCTCTAC TGAGCTGTCT CCAAGACTGG AACTACTTAG
 TGACTCGGCA AATTTCTGCG CCCCCACCC TCATCAAAGC TGCTAGTTCA GATGTTGACA GTGTTTTCAT GAATGTTGGA
 ATCTTACTAG TCCAGACTTA CTTAGGATGT TGTGGGGGAA GGCACCTGGG ATTTTCTGTG TCTTGCATTC ACAGAGGGAG
 GCCATTTAG ATTCAAGAGC ATTGATTAG GGGATCGTGA GGCAGGGATG CTAAGCGKA TTTCTCTCTT CAGG

SEQ ID NO:1823: (Length of Sequence = 344 Nucleotides)

AACAATTTTG TCTTTACTAC ATCTTAAAGA ATTAGAATT GGGTTGGTGT AAGTGACTTA CTTCCAGGGN ATCATGCTCT
 ATTTCTACCA GCAGGTACATA CCCNAATGTC AACTATCTA TTGTTAACCA TGAATGNTAT TCAGATCTAT TACTTTTCTG
 GAAAAGTGA ACATGTTACT TCCAACCATG GCCTGTCACC GTGAGTGTGA TCANCTTNT CCAAAACCAC ATGGGTGCGA
 GGAGCTAAGG GGTGGTACCC MAATGTTAGG GACAGTGTGA GGAAGGGCA AGGGAAAAGA AGTGACTNGA TGTCTTATGA
 GRAACCGTA AATGGCTTAA AAAA

SEQ ID NO:1824: (Length of Sequence = 340 Nucleotides)

GTGAGTGGCA GGTATCATGA ACCACATTGT GGACCTGGAG TTGCTAGGAC CTTTTCTGCC ATTACACAGA AAAATCCTCC
 CTGAGAACAC AGCCATNGA GENCACATGG CAGAGGAAGA TAAGACAATA AACAGAGNCA CATAATTATG GCCAGCGTGG
 GGGCTNACGG CTGTAATCCC AAAACTTTNG GAGGCGGAGG TGGGCAGATC ACCTAAGGTC AGGAGTTGGA GGCCAMCCTG
 GGCAACATGG TGAAACCGT CTCTACTAAA AATACAAAAA TTAGCCSGGC GTGGTGGCAC GGGCTGTAG TCCTAGCTAC
 TCAGAGGGTT AGGCAGGAGA

SEQ ID NO:1825: (Length of Sequence = 357 Nucleotides)

AAATTGGTGT TGGCCAAATT CTCAGTCCAA TCACCCTGGC CCAGGGCCTG GCGTGGGAGG ATGTGGCAGG CTCGTCTCC
 TTCTGGGGTT CTTGGTCTGG AGGAGTCTCC CCAACAGCGC CAAAGCTGGC TGTTTTCCGC CCAAGCCCC AGAAGTTTGA

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ATGAGAGGCA AATCTACCCT GAATGCACCT CCTCCTAGG CTGGGTGAGG TCACGCAGAC ACAGAAGGGC AGGACAGAAC
TCCCCATCTT CTGGGGGCCA ATTCGTCTGG AACTGTGCG GTCANCITCC TTTTAAAGT GCCAGTATCG GTGGGGCAGG
AAGGGACTCT CAGGGCTGAG CAGAGCCTTC TTCAGCG

SEQ ID NO:1826: (Length of Sequence = 207 Nucleotides)

CCGGCCCCCTT CAGTCCCCAG CCCCTGCCCC AACTCCGACT CTTGCACCCA GCCCGGCTTC AGCCCCGATT CCGACTCCCA
CCCCGGCACC AGCCCCTGCC CCAGCTGCAG CCCAGCCGG CAGCACAGGG ACTGGGGGGC CCGGGGTAGG AAGTGGGGGG
GCCGGGAGCG GGGGGGATCC GGCTCGACCT GGCTTAGCC AGCAGCA

SEQ ID NO:1827: (Length of Sequence = 309 Nucleotides)

GTGTGCGCCT GTAGTCCCAG CTACTCCGCA GGCTGAGACA GGAGAATCGC TTGAACCCCTG GAGGCGGAGG TTGCATTGAA
CCGAGATCGC ACCACTGTAC TCCAGCCTGG GTGACAGAGC GAGACTCCAT CTATAAAATA AAATAAAATA AAATAAAATA
AAATAAATAA AATAAAATAA AATAAAATAA AATAAAATAA AATAAAATAA TAAATAAAAA TAAATAAAAA TAAATATAA
AATAAAATAA AATAAANTA GAACCACCAT ATGANCCAGC AATCTCATTG GTGAGTATAT ATCCGAGGG

SEQ ID NO:1828: (Length of Sequence = 382 Nucleotides)

ATCTCTGACC ACCCCCTCCT CCCCATCCCA CCTTTGGTA ACTCCCCGC CCAGNCACT GCCAGATAT ATTCTTCTCC
TTGGGCAAGA AGTCTGTGC ATGCAGGTCA AATCTGAAAG GGCATTTCT TCTTTAATG AGTGTGAGG ATGGGGGATG
TGGCTGATGA TATAAGGGG CCTCCAATCA GACTTTCTAA TCTAACTGAA AAGNTAATTA CAATGTTGAT GCTAAAAAG
AAGGTTCTGG CAAAATAGAA CTCTGAAGC ATCATAAATC AGATGACTAA TATTTGTGAT CCCNTTTAA ATTTTCATGT
GAAGAAGAAT AGGGGATGTA ACTGAAGRAA TGNACTAAAA GTTCTTCTAT GTATTGATAA CC

SEQ ID NO:1829: (Length of Sequence = 361 Nucleotides)

GGCGCGCCT CTGGAGCTGG ATGTCCAGGC TGCGGGCCT CTTGGGCTC GGGCTGCTGG TTGCGGGCTC GCGCTGCCG
CGGATCAAAA GCCAGACCAT CGCTGTGTC TNGGGACCCA CTTGGTGGG ACCNCAGCG CTGAACCTCG GTGGCCGCTG
GGACTCAAAG GTCATGGCGA GCACGGTGGT GAAGTACCTN AGCCAGGAGG AGGCCAGGC CGTGGACCAG GAGCTATTTA
ACGAATACCA GTTCAGCGTG GACCAACTTA TGGAACTKGC CGGGCTGAGC TTTGCTACAG CCATCGCCAA GGCATATCCC
CCCACGTCCA TGTCAGGAG CCCCCCTACT GTCCTGGTCA T

SEQ ID NO:1830: (Length of Sequence = 180 Nucleotides)

AAGAAGGTG GCTGCCTGCA GGAGGCGCTG CAGCTGGCCA CTTCCTCGN CCANCTCGN CTCGGGGATG TAAAGAACTG
AGTGGGGAAG GAGGAGGCTC CACTGGATC CATCCGTCCA GCCAAGAGCT CTTCACTGC TACAAGAACA TTTGAATCTT
GGGACCTTTA AAGAGCCCTT

SEQ ID NO:1831: (Length of Sequence = 335 Nucleotides)

AGATCTTCTA TATTCGACT ACTGATTCAA ATGCTAATCC TGGACGGGCA TGGTGGCTCA CACCTGTAAT CCCAGCACTT
TGGGAGGCTG AGGCTGGTGG NTGCGCTGAG GTCGGAGTT TGAGATCAGC CTGGCCAACA TGGTGAAACC CTGCTCTAC
TAAAAATACA AAAATTGCT GGGCGTGGT ACATGCGCT GTAATCCAG CTAATCGGGA GGCTGAGGCA GGACAATCAC
TTGAACCCGG GAGGCAGAGG TTGAGTGAG TTATTGCACC ATTACACTCC AGCCTGGGTG ACAAGAGCGN AATTCATCC
CCCCACCAA AAGCG

SEQ ID NO:1832: (Length of Sequence = 337 Nucleotides)

GTATTTGGAG ATGGGACCTT TGGAAATGCT TTGATTAGGA AGAAGGAGCT TTCATGAACG GGATTAGTGC CCTTATAAAA
GAGGACGCAG AGAGCTCTCT CACACCTTCC ACTGTCTGAG GNCACAGGGA GAAGGCCCTG TCTATGAACC AGGNAATGAT
CCCCAACCCAG AACACCTTGA TCTTGGACTN CCCAGATGCT CCANATCTNT GAGAAGCAAA TTTCTGTGCT TTATAAGCTA
TCCAATGTAT GGAATTTTNG TACAGCAGCC CCAACAGACT AAGNTATTAA TAAAATAAAG ATGTAAGATC TCTGTTGAAA
ATGCACAAAT AATATCT

SEQ ID NO:1833: (Length of Sequence = 244 Nucleotides)

TCTCTCATTG TAAGCACAAA TTGTTCCGTG TCTGGTTATT AAAATCGCTT TGGGTCTATA ACAGCCACTC TTGTCCCCC
TTTTAATAGA AAATGTGTCAT TCTAGCCTGG ATTTCTCCCC ACTGGAGGTG GAGGGTGGGA AGAGAAGGGA GTCAGCTCTG
ACAGCTTACA AACTGGGAAG TTCTGTGCAT CTCCAGGGAT TCCAGAGTTG AAGATCTGGT TGTGGAAGC TGGGCGCCCA
GTGC

SEQ ID NO:1834: (Length of Sequence = 322 Nucleotides)

TCCTGTACTA CACCTTGGCC AACATGGCCA TGTTGAACCA CCTGCGCAGG CCCCCTCCT GCAGTACCTG TACTACCTGG
CCCAGATCGG CATGCCATG TCTCCGCTCA GCAACAACAG CCTCTTCTC AGCTATCACC GGAATCCGCT ACCGGAGTAC
CTGTCCCGCG GCCTCATGGT CTCCCTGTCC ACTGATGATC CCTTGCACTT CCACTTNACC AAGGAGCCGC TGATGGAGGA
GTACAGCATT GCCACCCAGG TGTGGAAGCT TCAGCTCCTG CGATATGTGT GAGCTGGCCC GCAACAGNGT GCTCATGAGC
GG

SEQ ID NO:1835: (Length of Sequence = 178 Nucleotides)

ATGAAAGCAC AAAAGAAGTC TATCAAAATT ACâAAAACCT AAAACCGAGT AAACAAACT TCAGAAAGAA TGAAACAAT
TGGAAAATAA CTTCAGAAA AAAATGTAA ATGGAAACAA TACAAGANCA ATTTGTGCC TCTGAAAAC AGAGGTTAA
GTCAGAAATT TTTGTNC

SEQ ID NO:1836: (Length of Sequence = 377 Nucleotides)

CGCCTGNNAC CACACCCAGC TAATTTTGT ACTGTTAGCA GAAACAGGT TTCATCACGT TGGCCAGGCT GGTCTCGAAC
TCCTGACCTC AAGTCACCCA CCTGCCTTGG CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGTGC CCGGCCTTTA
TGCTGAGTTT TAAGGCTGT ATGAGACACC AGGTGGTGGG AGGGAGCTGT TTTGAGAGCA GGAATTTAG GATACTTAG
AAATTAGAAA ATTAGAGAAG TCATAGGATC TTGGAACATA GGGAGAACCT TAGAGTCCTG TGGAGCAGAA CCCAGCATT
GTATGTGGAG GAAACGGAGG GCCCAGAGAA GTTGTGACTT ATNCCGGGT CAATCTT

SEQ ID NO:1837: (Length of Sequence = 388 Nucleotides)

GGAGAGAACA AACCTCTTA CTGGCCTTGG GCCCATCCCT CTTTCTCCA CACTGCTACT TTGAGTTAT CTCATTTTGC
TCCCAATAGT CAGCCTGAC TTTTCTGGGC TTACCTGGGC ATCAGGGACC CATGTGCAC ATTCACTTGT CCGATTATG
TCTGCCCTAG AGCGTCTCCT AGGGCAGCCA GTCTGGAACA GTCAGTCACC TAGGGTCCTG GAGCTCCTGC AGTCTGCCAC
TCGCTNCTTC TGCCGTGATAA CAAATACTAT TCCTTTTATC CTTGCACTC GACCCAGAAA GAGGTGGCTG TCAATGTCCA
AGGCCCTGG GAAACGAAGG ACTGGAAATN TGAAACCACT GGGCACAGG GGAATGGGTG GGTCTGAG

SEQ ID NO:1838: (Length of Sequence = 369 Nucleotides)

TCTCTTTATG CCAACAATTA ACTGGGAGCT AGGTAAATTT ATTTGGCTAG ATAAACTAC CAGCTAGATG GATTTATTTG
GTGCCCTCAT ACAGAATGCT GTAGAAAATG TAAAGAAGAG AAAGCTCCTT CCAGCTAGAA GCACATGGGA CTGCTTCTAG

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GATGGAAACA AGTCTGCTA TTTTACAAT CCTAAGNGT TCTCCAGGCC TCTGGAGAAC AAAGTAAAGT TGTAAGATCC
 CCAAAGACAC GGAAATCCT GGACGAACAG ATTAGAAATA ACTACAAAA ACAAGTTTTT TACTTTCGAA AAGGGTACTG
 CACTGAAACC AAGTTGGACT TTTGGTCCAC CCCAGGGCC CTCTTCAGG

SEQ ID NO:1839: (Length of Sequence = 359 Nucleotides)

CNNGTAGGGA AGAGGACTTT ATTGGGATGT TAGTAGGGAA ACATGAGAGG GTGAATTCCA GGGAAATAGAC ACTAGGACCA
 AGGTGGCGGT CACCTTAAAG AGCCATAAAT AAACCTAAAA AATTAAGGTG AGGAGGTGCC ACGTGGGGAG GCTGCTGGGA
 CTATCTGGGA ATTCTTAGGG ATGGAATTTT GGAATTGGAA AGGGGAAATA AGAATTTCCA GCCGTNTCAC AAAAGGGTGT
 GAAATGATCA CTTCAAGACT CCTGCTGCC CTAGGCTGGG AGTTGGGGTT CTGGGGCTCC AGGAAGAGGG GAGGTCTGGG
 CTCGGCTTNA AGGGGTGAAG AGGGCCCGGT CAAGGTGCT

SEQ ID NO:1840: (Length of Sequence = 360 Nucleotides)

CCAATGAGCC CAGCCTGACA CATATGGACT GCTCGACAGG TCCACTGTCC CACGAGCAGA AGCTGTGACA AAGCTTGGAA
 ATTGCCTTGG CATCCACCTT TGGCTCTATG CCTCCTTCA CGGCACGGCT GACCAGGGGA CAGCTCCAGC ACCTTGGCAC
 AAGAGGGAGC AACACTTCCT GGAGGCTGG CACCGGCTCG GAGCAGCCTG GGAGCATCCT GGGCCCGAA TGTGCTCCT
 GCAAAANAGT ATTTTNTCCC TACTTCAAAA AGGAGCCGGT GTACCAGCTG CCTGCGGCC ACCTCCTGTG CCGNCCCTGC
 CTGGGTNAGA AGCAACGGTC CCTGCCCATG ACGTGCACAG

SEQ ID NO:1841: (Length of Sequence = 332 Nucleotides)

GTGTGATTCC ATTTATATGA AATGTCCAGA ACAGGGAAAA CCTATTNAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT
 GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TGATTGCTTC ACGGGGTGAT GACAGAATGT TCCAGAACGT GACAGAGGTG
 GTGCTTACAC AACTTTCTGG ATGTACTAAA TGCCGCTGAT TGTTCACTTT CAAGTGATTG ATTTTTAGGT TATTTGAATT
 TCATCTCAAT TAAAAACCC AAACACGCAA ACTGCTCCCG CCAGCTTCAG CCCCAGGCA GACGGCGCAN CCGTGGGAGG
 GATGCTGAGC CA

SEQ ID NO:1842: (Length of Sequence = 246 Nucleotides)

GCTGTCAAG GCAGAGTTTA CTGAACININ AGTTTCTCC TGCACACACC GGGCATGACA CTTCAAGTC TGNCCAGCAG
 TGGGTCCAGA AAGTACCCTG TGTGCTTGG ACGCAGAGGC TACAGTCTN ACTGTGTGGC ATGGGAGCCT TCANAGTGCC
 CTCGGGAGCT GCCCCTGGTC TTGTCTGNA AAGGTGACTG GGAGGNTAGA AAAAGCAGCG GGCTGGCATT GTTTCGGGG
 TGGGT

SEQ ID NO:1843: (Length of Sequence = 313 Nucleotides)

ATTTATTGCA AACAAAATG AGGTAAAAGA AGCTGACCCA GAACCCACGC CCGTCCAGGC TGGGGAAGTC TCTACTCGCC
 CCACACCAGG CCCCAGCAC CGCGGGCCCG AAGCAGCCCC CAGAGGACAG ACGGGCCCTG CGCACTGAGG TAGCTGCATC
 TTAAGCCCC ATGAGTACAA CTGCCCAGGG CTGCCCAATT CCCAGAGGGG AGGAGGAGAG AGAGGCAGGC AGGGGGAGCC
 CCGGCTTCAG GTGGGGCACA CCCCANACCC TCAACAAACC TTCCAGCCTC TTCGGGCTGG GGCACCTCCT GCC

SEQ ID NO:1844: (Length of Sequence = 274 Nucleotides)

CTTCGCTTCT NAAAACCAAA CTCCAGCCGC TGCCAGTGG GACTTGGTGC CCCGNCCTG CCAGAATGCT CCACTGCCAG
 CCGCCCCC TGCTCGGT TCCCTCTGT TTAGTGGGA CACAGGCACC CAGCTTTGGG GTGGTGTGA CGCTCCAGG
 GGTGCCAGGA GCCACTGGGA CAGGGTGAGG CTCCAGAGC CTCTCGAGG TGCCAGCTC TCCAGGGAGC TTCTGNCCTA
 AGGNCCTCTG AGGGATCTGC TCCTTAACCN CCCA

SEQ ID NO:1845: (Length of Sequence = 441 Nucleotides)

GGGGAGGGGC GCACACACGA AGGGAGGTGT CAGCCGGGAC CGGAAATCCA ACACGGCAAA GGAAAAA CACAACCCGT
TTCCCAAAGG GAGGAGCAGC AGGAGACGAT GAAGAGAAGG AACAGAACTC TCTGGGCAAT TCTGATGTAC ACCCAGGTAC
AGTGGGGATC TCTTCACTTG ATGCCCCAAA AAAGGGATAA ACAAACAAA AACGTGAGCA GCCAGCTTCA TTCTTTCTC
TGCTTTGTCT CTTGCCAGTG ACTTTGGGTT TTGTGTGAA GCTCTCTTAA TTCTTTGACC TTGAAGTTCC TCAACATCTA
TCCAGTAGC CTCAGTTTCC ACTTTGCTTC AACTAACATC TTGGACTTTT TTCAGTCTTG AACAAAGGCTA AACCTTTGAG
ATCTTGAACT CGGACTTCAG CCTACTTAGC TTGATACTAC C

SEQ ID NO:1846: (Length of Sequence = 255 Nucleotides)

ATGAATTCAT TGTGTATTTA TTAATCAGAG TTAATCACTA CCTACCAAAT GCTATCCGCA GAGTTAAAGG ATTAAGTACA
TAGGTCTTTA TTTAAACACT GATTTTITTT TTTAAATATA TACACACAAA ACTTAGTTCA GCAAGGCTTC ATGATATACA
CCAATTCCAA AATAAAACAA TCAAATGGTC CNGGNGTAGA ATGCCAGATT CCTTTTATCA TCTGCGAGGA AAAGAGAAGC
AGGATGAGGA AGAGT

SEQ ID NO:1847: (Length of Sequence = 312 Nucleotides)

CAGGGCACAC GCAGGACCAC TGTGGATTAG AAACCCAC CTCACTCG CAACATTCCT CCCACATCCA CATCCACGAC
GGAGCCAAAT CTCATTGTIN ACCCTCAGTC ACCACCCC CATGGAGC CINCTGGTTAC GNCATGGATG ACAGGTGTCA
TGCACAGGGA GAGAATTTNT CCCGGATAC CCTTGAGG TGGNCCAC CCCCAGGCTA GGGTGGGAGG ATTTAGAGCA
GTGCAAGAAA CCAAGGAGGA TGGAGCATCC AAAGGAAGAA AGGCAGGC TNGGGGATTG AGGCAGGAA GGGCT

SEQ ID NO:1848: (Length of Sequence = 311 Nucleotides)

CCACTGGCCT ACATTATAGA AGTCTGTAT GCGGACCCTG CCATTGTCAT CATGGACGCA GGCCATGACC ATCATCACCA
CCCAATTTNT TGTCTGAAGA GAATCCAAC GCTACCCAAC CATCTGTGTC TGCACTCAGC TCAAATTCTA CATCAGCCCC
TATCATCOGG TAGCTGAGGA AATAGTCACA GGTCTCTGCA TTACAGCCTG GTTTGCCATA TCTAAAGCAT CCTTAGTTT
TTCCACAGTC GTCCACTTTG ATTTTGGCAA ATGGNTCCAC AGGAGAAGCA GCAGGGCTNN GTGTGGGGTG T

SEQ ID NO:1849: (Length of Sequence = 318 Nucleotides)

GTGAGTCCCC CAAGAGGGGC CTCAGTCACG AATGTGATG ACCAGTGGGC ACAGGTGGAG TGAGTGCTTG ATGCCCATGG
TGAAAGCAGG GATGTGGGGC TTGTGCACAG TGANCTGCTG GACCTCGTGG GAGCCGGGGC CAGGCOGTGG CGTGAGGTCC
AGAGGGTAGG CGAAGGCTTG GCCATGCTGT AAGTAGGGCT GCGGTTCTNA TAGATGGATG GCTCAGGTGG GCGGTACGTG
GTAGGTCCAG GGCTCCTGC CACATCCTCC TTGTAGANCC AGTTCCTGTC CCTGGAGGCC AGACTNTAGC AGGGAGCA

SEQ ID NO:1850: (Length of Sequence = 406 Nucleotides)

GGAAGCCACT GATTTTCCCT CCAGTATGAT GATTTACTTT AAAAATGAAC CCAGAGGGAC GGGCATGGTG GCTTATGCCT
CTAATCCAG CACTTCAGGA GGCTGAGGCA GGCAGATCAC CTGAGGTCAG GAGTTCGAGA CCAGCCTGGC CAATATGGTG
AAACGCCTGT NTCTACTGAA AATATAAAA TTAGCCGGGT GTGGTGGTGT GCACCTGTAG TCCAGCTAC TCAGGAGGCT
GAGGCAGGAG ACTCACINAA CCTCGTGGT GGAGGTGCGA ATGAGCOGAG ATTNCACCAC TGACTNCAGC TTTGGCAACA
GAGCAAAGAC TNCGTCTTCA AAAAAAATA ANAAGGGAAA AAAAACCNG NAAAAGCTTT TTTATTGTTA AAAACAAGTG
GGTCAC

SEQ ID NO:1851: (Length of Sequence = 328 Nucleotides)

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CTGAGGGGCA TTTTATTATTA TAAATTTAAT ATGGTTGATT AATGAAAAAT GACAATGAAG TACCAAGAAA ATGTTTGTCA
 ATATAAAAT TTTAGCAGCA TTTCATAGT TTCAGGCTCC AACATTAGTC GTACTTCCTC CCTCCCGCTA TCAAAAAAG
 AAGAGACTCC AATGGGATGG AGTAGAGCCT GGGGGTGTCC AGCTTTGTGT GGGCCTCAGA GAAATACTCC ATCCAGCATC
 CAGGATTCTC CCTCCCTCTC ATCCCTGAAG TGCTAGAATG TCAAAGCACA GAAAAAGCCT CCTTTGTGCT GACATTGGAG
 ACAAGGAT

SEQ ID NO:1852: (Length of Sequence = 174 Nucleotides)

GGGCAGGACG GCTCTNGGCC CTTCCTGGCT GACTTCAACG GCTTCTCCCA CCTGGAGCTG AGAGGCCTGC ACACCTTTGC
 ACGGGACCTG GGGGAGAAGA TGGNGCTGGA GGTTCGTGTT CCTGGCAGCA GGCCCCAGCG GCTTCTGCT CTACNAACG
 GAGCAGTAAG GACG

SEQ ID NO:1853: (Length of Sequence = 252 Nucleotides)

GAGCCATGCA CACACACGGC CGCATAGTCA CACACGCATA TCTACATGTC CCCCCACAT ATACACACAC ACATATACAT
 GGACCCATGC ACACACACAG CTGGATATTC ACACACACTT GCACATCCAC TCCATATACA TAGACACGCA CAGACACAGC
 TGCATGTTCA CACACNGGA CGTCACACG GACACAGACA TGCATGCATA TGCGCACAGG TGGTACAGC CTCAGTGGTG
 GGGGTTGGCT GT

SEQ ID NO:1854: (Length of Sequence = 288 Nucleotides)

GGAAGGAGGG CTAAACAATG GTCTGCAGT CAGTTACTCC TCATCCTCGC CTGGGCGGG CCAGCATCCA CTCCCCTTCC
 TGTAAGCAT TTGGATTCC TTGGGAAAC AGCCTGCCC TCTGCTCGA TCCATGTGTT TTGAGATCTC ACAGTAGCAA
 GTGACTCATG TTGGTTCACT GATTCCCGA GGTGATTCA AGGATGTCCC CAGCTAGACC CAGGATGGTG GACTCCAGAT
 TGGGGCACTG GGCAGTTTCA CATCCTCAAG GCTTGGCCAT CATCGGGG

SEQ ID NO:1855: (Length of Sequence = 293 Nucleotides)

AAAATGCTTG TTGATATTTT AGTTATTAAT TCATATTAAC TTGGCTGAA ACTTTTAAAT TCTATTGTGA ATAGTCAAGT
 AAAATTTAGA TTGTTACATT CTGGGTTAGT ATTAGATTGT TTTTAAGATT GTTTTAAACA AGATGTTTTT AAGATGAGTT
 TTAAATAGTT CTCTTAACAC AAATAAAGCT TAATATGAGT ATTGAAGGA AATTATCCCA AACCATTCCA GTTCTTGGCT
 GTGAAAGGCT TTCCAGGGC TAATAAGTTT TCCACTTCAG CCGTAAGTAG GTG

SEQ ID NO:1856: (Length of Sequence = 308 Nucleotides)

ATCTTAGCAG AATCTTGAAA AGCCCAGAGA TCCAAAGAGC CCTTCGAGCA CCAAGCAAGA AGATCCATCG CAGAGTCTTA
 AAGAAGAACC CACTGAAAAA CTGAGAATC ATGTTGAAGC TAAACCCATA TGCAAAGACC ATGGCGCGGA ACACCATCTT
 TCGCCAGGCC AGGAATCACA AGCTCCGGGT GGATAAGGCA GCCTCTGAGC CAGCGGGCAC TTACAAGCCA AATCAGATGA
 GAAGCGGCG GTTGCAGGCA AGAAGCCTGT GGTAGGTAAG AAAGGAAAGA AGGCTGCTGT TGGTGTTA

SEQ ID NO:1857: (Length of Sequence = 299 Nucleotides)

GGGGAAGCT AATTGGCAAT AATCCTTGGC GGAAGGTCAG ACTCCTCTCT TACAGATCTA GGGGAAGCCT GGTAAATGA
 TGGCTCTTTG GAAAATGCCA AGCTCCTTCA GATTCCATAC CCTCTCGGGC CCTCAAGCAT AGGCAACGAA CTGTCTCTG
 GCTTCACGNT TTCTCATGTA ATCAAAGCTC TCATGCATGG CCTGGATTG TAAACACATG CTGGCTGCCA GCAGTGGCAA
 GTTAGCCTCC TGACCCACTT CTCTCTGCT TTCACTCTGG TGTATGAAGG GGGATGAGG

SEQ ID NO:1858: (Length of Sequence = 295 Nucleotides)

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TAAGACTTCC TGTTAGTAAA AGCTACCTCA TGAAAAGTAT TGATGTTATT TGCCAACATT TAGACTAGCT TTTGTTACCG
 TTTTCAGTTAT TCAATTTAGT CAGCACATGT TTGAGTGTCT TACTGCAGGT GAATAATCCA TGATTTCCTGC CCCAGAGTAG
 TTCATAAGAC TGGTAGGATA CATAGATTTG TAAATAAATA ATTATAATTTC TGGGCAGTAA GTGCTGCTAT AGAAGTCTCT
 ATAAAGCAAT GTGCAACAC AAGAAAAGGA GCCGTTAATT CCTTATAGGG AAAGG

SEQ ID NO:1859: (Length of Sequence = 326 Nucleotides)

CTTTATTAG TGCTGGGGCT TTGAAGCAA ATGTACCTGA GTTTGAATCT CAGGGATAAC CTTTGTACTG TGGCCCTGGG
 TAAGTTACTC ACTGTCTCTG AAACITCAAG TTCTCATAA ATAACCTAAG ATGGACAATC ATAACCTCTCT CTGGATTGA
 GGTAGGAGAA TATGGTGGAG GCAGGGAACC GAAGGCCATT TCACTCCAAC TTCTAGAAC TAAATTAAAA GGAAAACCTT
 AATTTTCCAT GCCTAAGTAA CAAAAGGACC AAAGGTTACT CCGTTTGCAA ACTCCACCT TTTCTGCATG GCAGATGGGA
 AGTTGG

SEQ ID NO:1860: (Length of Sequence = 294 Nucleotides)

CCACCCCTAA AAGCACCTGG CCCGCTACA GCAAACCAGG TCTGTCCATG CCGCTGCTGG AATCAAAAAA AGGCCTCTCC
 TTCTTTGCGT TTGAGCACAG TGAGGAGTAC CAGCAGGCTC AGCACAAGTT CCTGGTGGCC GTGGAGTCTA TGGAGCCGAA
 CAACATCGTG GTTCTGCTCC AGACGAGCCC TTACCACGTT GACTCACTCC TGCAGCTCAG CGATGCCTGC CGCTTTCAAG
 AGGATCAGGA GATGGCTCGA GACCTCGTAG AGAGAGCGCT GTACAGCATG GAAT

SEQ ID NO:1861: (Length of Sequence = 183 Nucleotides)

TGAAGACTCC TAATCTAGTG CCTCGAGAAA AGCAGGCAAC AGAGGCCTGA TGTCTGACAT TGACTCTTTG GAAGATTAAA
 CTCTCTCACA GATTTCINATA ATNACTTTGG AAATNATGAC TGATGCCAG GCTGTTCCTT GGGTGGACAG TTGTCTTTTT
 TTTTTTTTTT TTTTTTTTTT TTT

SEQ ID NO:1862: (Length of Sequence = 296 Nucleotides)

TTGGGCTTCT TAAAGTTCTT CCCATCCCTC CTAAGGTCTA AGATGATGCA TTAAACACAG AGGATGCCCA ACAGTGGCTG
 ATGGAATTAC CAAGTAAAAT CTAAGAGGTA GAAAAATGTG GTAGTTTTTA AATTTTATTT TATTAGTATG CAGGTGGGAT
 TCAGAGACGT AAGATCTTAG CCTTTATTTT CAACATCTCC CATGCATGTC AACAAAGATT ATCAAACACA GGAAGTGAAT
 AAAATACTAT GTAGACACTG ACCCTCTTTA TATAAAATGT GATTGATCAG GTCTGG

SEQ ID NO:1863: (Length of Sequence = 259 Nucleotides)

CAAAACAAAA AGGGGCTCAA ACCAACAGGA AGTCAGCCCC ACCGCAAGCC GGACTACAAC TAACTGTGTC TCTCCACGCT
 CAGGCGTGGG AGCCAAGGCT GTGCCAGGCC TGGCCAGGCC AAGCAGGATG ACAGCAAACG CATTCCTGAAC GNTAGCAAT
 CAGGTCCCTT GTAAATGTGCT TGGAGAGINT GGACAAGGGC CGAGATGACG AGCTATGAGC TGTGGAAGGG AATGGGGGAA
 GCAGAAGGGC ACAAACAGA

SEQ ID NO:1864: (Length of Sequence = 290 Nucleotides)

ATCCTTACCA ACAATGCTTC CCAACTGCCT CAAAGCTCTC CTAAATGAGA ACATAGTTCT TTCTGAGCAA GGTCTGTGG
 ACCATGAAGA ATGTCACCAA GCTCCCTCA GAGTCAGCGG GAGCTCAGCC AAAGCACAAG TGCACTGCCC AGCTCCTCCC
 ACTCTGCACC TGCTGCCTCA NACTCCCCAC GCTGAGCCCA GGCCCTACC CTCTGAAGGT GTTCCCCTAT TGATTCTGAC
 ACACACACCC CACAAGAACC AGATGATCTA TGNCATACAG CATTTAGCTA

SEQ ID NO:1865: (Length of Sequence = 236 Nucleotides)

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CATTTCTGTT ACATTGAGAC TTCAGTCACC AACATCTGGT GGCAGAGATA CAGGTGTATG AAACATTTCT ATTTACCCAA
 ATATGCCAGT TCCCAAATAG GATGACTGCA TTTAGTGTAA AACTGGCTTT TCTCATTAGA TACTCTAATT GAGGAATATT
 TAGCTTCTTG AATAGAAACC ATCCAAATGA TGTTTTTTTT TTGATATGTC TGTAACATA AAAATCAGCA AATAAG

SEQ ID NO:1866: (Length of Sequence = 424 Nucleotides)

TACGGGAAGG CGGTGTTTGG AGGCTGGAGC CGTGGCAACG TCATTGAGAA AATGCTCACA GACCGGCGGT CTACAGACCT
 TAATGAGAGC CGCCGTGCAG ACGTGCTTGC CTTCCCAAGC TCTGGCTTCA CTGACTTGGC AGAGATTGTN TCCCGGATTG
 AGCCCCCAC GAGCTATGTC TCTNATGGCT GTGCTGACGG AGAGGAGTCA GATTGTCTGA CAGAGTATGA GGAGGACGCC
 GGACCGGACT GCTCGAGGGA TGAAGGGGGG TNCCCCGAGG GCGCAACCCA GCACTGCCTC CGAGATGGAG GAGGAGAAGT
 CGATTCTCCG GCAACGACGC TGTCTGCCCC AGGAGCCGCC CGGCTCAGCC ACAGATGCCT NAGGACCTCG ACAAGGGTCA
 CCCCTCCTCC ACCCTGGACT GGCT

SEQ ID NO:1867: (Length of Sequence = 256 Nucleotides)

AAACAATTGA AATCCACAAG AAATTACTAA CAGCACGTGT TTACGTTTAA TCCTGAATCA TACATTTTAA CAATTCACAG
 CTACAGGAAA TCTAGAACAA AATCAAATAT TCATCAGTGT GGGTTGAAAA GTTGAAGAT TTTCATCTT ATTGAAAAGA
 ATTTTCAAA AATGTTTCTG TACAAATGAA TGAATTGCA CCAGGCTGCC CATGGACACC AGGTGTGCC GCTTCCCAAC
 GGTCACCAC CAGCTT

SEQ ID NO:1868: (Length of Sequence = 297 Nucleotides)

CAAGGTTTTT TTTTATTTGT AGCTATAGCT ACAACTTGGC AGCATGGGGG AGGGTGGGAA TGTCTGGAG GGTCTCCAG
 CCTCCGCAA GCAGAGTACA AAGGCTGCTC GGGGGGCCGG CCGAGGCGC GGNTGCAGCA GTGNAAGCAG CAGCACTAAA
 CCTGGTGCCC CCTCAGGTG GGGTGTCTGG AAGACGGTGG GCAATCCCTG CAGGATGGGC GAGGACCAGA CCCCAGGGCG
 GGGATCCTGC ATCCCTAGAC CATGTGGGT CCTGGGTCA GGCACCTNGG NATGCTA

SEQ ID NO:1869: (Length of Sequence = 470 Nucleotides)

CAGACATCTG GAGCATGGGA CTGTCTCTGG TAGAGATGGC GGTGGGAGG TATCCCATCC CTCCTCCAGA TGCCAAGGAG
 CTGGAGCTGA TGTTTGGGTG CCAGGTGGAA GGAGATGCGG CTGAGACCCC ACCCAGGCCA AGGACCCCG GGAGGCCCT
 TAGCTCATAC GGAATGGACA GCCGACCTCC CATGGCAATT TTTGAGTTGT TGGATTACAT AGTCAACGAG CCTCCTCCAA
 ACTGCCCACT GGAGINTTCA NTCTGGAATT TCAAGATTTT NIGAATAAAT GCTTAATAAA AAACCCCGC AGAGAGAGCA
 GNTTTTNAAG CAACTCATGG TTCATGCTTT TTATCAAGGG GATCTNGATG CTGAGGAAGT NNGATTTTTT CAAGGTTCGN
 TCTGCTNCAC CATNGGGCTT TAACCAGNCC CGGNACAACC AACCCATGGN TGNTGGNGTT TAAGNGTTTT

SEQ ID NO:1870: (Length of Sequence = 344 Nucleotides)

AGAGATTAGA TTGTAAAC ATCTAGGTTA AAATGGTTAA AAGGATTTTC ATACAATTTT AGGCACTATA CAGGTGTTTT
 ACAACAGCAT TGGTACTTGG ATATGGGGAA AGATAAATCC GACATTTTAA TATCTTGATC AATTGTGAC ATTCAAAATA
 ATTCCATTTA AGAAACATTA ATCAAACTT AAAGAGACAT ACCACTAAGT ATCCACACA GTATACTGAA AATAAATATA
 GNAATACAAC CAGAAGTCTA CAGNTCACCA CAGTAGACAG ACTGGTGAAG NCCAGCTTT TCATGGGCAG TNAAGGGCTC
 TGGGCTAGAT TTGGGTGTCA ACTG

SEQ ID NO:1871: (Length of Sequence = 278 Nucleotides)

GGATTTATTG TCATTCCTCC AAGGTCAGCA GGGGAAGGGG ACACCAGCCA CACTTCACCA CAGGCATAGG TGGCACTGAG
 CCACCTGGCA CTATCTCCAC GTGCTCCACA CGGAGGGGTG CCTTCTCACT GGCAGCAGCT GCACTTCTCT GCTTCTGCCT

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CAGCTGCCTC TCCGCCTTTG CACACACAGT CCTTGGCACA CTTCTCACAC TNCGCAGGCA GCAGGAGCAG CAGCTCTTCT
TGCAGGAGGT GCATTTGCAT CCTCGCACT TGCAGGAG

SEQ ID NO:1872: (Length of Sequence = 271 Nucleotides)

CTTGCCATCT TCACAGCCAG AAGCTTCCTT GCTTCATGCG CAGACCCTCG TGACTCCCTT TCCCTTATAA GGGCCCCCAT
GATTACTCAG GGGCCACCTC AACCATCCAC GGTTCATCTCC CCACCACGAA ATCCTGAACT GAAGCACAGG CGCCGGGTCC
CTTTTGCCAC GCAAGGTAACT ACTTTCCAC GTCTGGGGT TCCAAACCTG CACATCTCTG GGGGCTGTTA TTNCACCCAC
CGTCATCAGT GAGGCGCCTT NAGGAGGGGC T

SEQ ID NO:1873: (Length of Sequence = 332 Nucleotides)

CAGGGTATAG TGCAGTGGCG CAATCTCGGC CCACCACAGT CTCGACCTCA TGGGCTCAAG TGATCCTCCC ACCTCAGCCT
CCCAAGTAGC TGGGACTACA GGCATCCTCC ACCATGCCCA GCCAATTTT TGCATTTTTC ATAGAGAAGG GGCTTCACCA
TGCTGCCCAG ACTGCTCTCG AACTCCTGGG CTCAAGCCAT GGAATTGCCT TGGCCTCCCA AAGTGTTAGG ATCAGAGCCG
CGAGCCCCTG GACCCGGCCT ATAGTTTTTG TTTGCTTTG TTTTGTITT TTGAGATGGA GTCTCACCCT GTCANCCAGA
TGGGAGTGCA GC

SEQ ID NO:1874: (Length of Sequence = 317 Nucleotides)

CTCTCCACCT CAACCTCCAG CCCACCTCCA GGCTGGGGAA GGGGCTGAGT CTTCCCTCC CATAATACC TCACCCGGCC
CCCAGCCAC AGAGAGGCTG AGGGAGGGGC TCTGGTCTCT CCTCCATCCC TGTACCTGCT TCTTCCCTCT TCATTTCCAC
CTTCTAGATC TTTCCCCCA CCCAGCCAC CTCCAGGCTG GGAAGGTGA GGAATCTTT CCTCCACAC CCTACCCAC
CTCACCTGCA GCCTGTGCCC TGGGCCAGGA GAGGCATGGG TGAACAACA GACCCACAAC CCGGACCCT GCAGGCT

SEQ ID NO:1875: (Length of Sequence = 185 Nucleotides)

GIGTTCACC CACCTCGGCC TCCCAAAGTG CTGGGATTC TGGGTGAGC ACGCTGCGCC TGGACAGTCT GCCCCTAGAT
GAGTTGCCCA GCACGGTACA GCTACTGCCT GCCCGACCC CAGCCCTGA TTCTACCGCC GCTGGCAGG GGGACGGCCA
GGGAGAGGTC CAGCCGCGG GCAAG

SEQ ID NO:1876: (Length of Sequence = 214 Nucleotides)

CCTGGGGACA AAATAGTCAG CAAATTCTCA AGGGGAGAAA ATAAAGTACT TCCCTTCTGT TAAAAAAG TCAAGAGACA
AATCTTCTCT CCCCATTCT CACTAATAGT TATTGAAGG GAAAAA AACCACAA CTTTTTAAAC TAAAGATAAA
AACAAATGAA AATGAATAAG ATCCAAAGAA TGTCTTTTGT TACTCTGCCT TATG

SEQ ID NO:1877: (Length of Sequence = 340 Nucleotides)

TTTGAAGAAG AAGAAGTGA ATTATCAGT GTGCCTGTCC CAGAGTTTC AGATAGTGAT CTGCCAACA TTGTTTCATGA
CTTTAACAAG AAACCTACAG CCTATTTAGA TCTTAACCTG GNTAAGTGCT ATGTGATCCC TCTGAACACT TCCATTGTGA
TGCCACCCAG AAACCTACTG GAGTACTTAA TTAACATCAA GGCTGGAACC TATTGCTCT AGTCTATCT GATTCATGAG
CACATGGTAA TTACTGATCG CATTGAAAAC ATTGATCACC TGGGTTTCTT TATTTATCGA CTGTGTCATG ACAAGGAAAC
TTACAACTG CAACGGGAGG

SEQ ID NO:1878: (Length of Sequence = 326 Nucleotides)

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GAAAAACAAG GAAATAGGC AACACCTGC AATGGACACT TTCTCTACA GAACCTTTTC AACCTGAAT TGAATTGTTT
CCTATTCAAT TNCTAATAAA AAGTTACTTT GCAAGATATA AGGAAATACT GTCCCAAAGA TTTTCACTAG TCATTCAATC
CATTAAATAGG ATTTGAAAAG GCATCATTAC ACAGGGTTGA AAATACTCTG GAATGAGACT GCTTTACAGT CAGAATGCCT
GAGTTTTGAG GCACTGTTAC TTCTAAACAT CTCTAAGTTT CTATTNCTC ATCTAAAGGA GTAATATTAC TTTCTTAAA
AGGTTG

SEQ ID NO:1879: (Length of Sequence = 222 Nucleotides)

GAAAGGGAGA GGTTGCAGCG AGCCAAGATC GTGCCACTGC ACTCCACCT GGGTGACAGG GCAAGACTCC ATCTTAAAAA
AGAAAACCCA GGAGTCTTTG GTTAATGTAG TGCAGGACTC TGAGCTCCCG GGAGGACCCT TCCCTCCAG ATGAAGTGTG
ATGGACCAGC CCAAGGAGG GGAGAGAGCA CTINGGCCAT AGTGGTGGTG GATCTTTCTA AC

SEQ ID NO:1880: (Length of Sequence = 244 Nucleotides)

GACATGAATG GTATCCTCCT GGGGTATGAG ATCCGCTACT GGAAAGCTGG GGACAAAGAA GCAGCTGCGG ACCGAGTGAG
GACAGCAGGG CTGGACACCA GTGCCCGAGT CAGCGGCTG CATCCCAACA CCAAGTACCA TGTGACCGTG AGGGCCTACA
ACCNGGCTGG CACTNGGCCT GCCAGCCCTT CTGCCAACGN CACGACCATG TAAGCCCCCT CCGCGGCGAC CTCCTGGCA
ACAT

SEQ ID NO:1881: (Length of Sequence = 156 Nucleotides)

GTACAGGGGA GAGTTGAGCT GTGACAAAGT CAAACACAGG CCTTGGCCAC CCACAGGAGC TCTGCAGCTG GGGTGGTCTT
GAAAGTTGTC TCAGTGAAGG CAAGGTGCTG AGCTTATTAC CCCAGCAGTC ATTGTATTTA GGCTCCGTGT GGTACC

SEQ ID NO:1882: (Length of Sequence = 210 Nucleotides)

TTTTTTTGA AACGAAGTCT CAGTCTGTCA CCCAGGCTGG AGTGCACTGG CACGATCCCG GCTCACTGCA ACCTCTGINT
CCCAGGCTCA AGCTAGTCTC CTGCCCTCAG TGCCCGAGCA GACGGGACTA CAGGCACCCC CACCACGCCC GGCCAATCTC
CAAATGGTTC TTTTTTCCG GAGTAGTAAG TTACAATATG GGAGATTATT

SEQ ID NO:1883: (Length of Sequence = 214 Nucleotides)

GTGATGAATA CATCCAGTTT TCCAACCACA TTCCACCAGG TGGGTGTTTG GCTGTGGGAC GCATTATGTA ATCTTCGTTG
CCAGGAAATT TACCTTCTTA ATTACATTTT GCAAATGTTT ATTTGAAGCC GCCTTCTTGG AGCTCACAGT AACTAGGAGG
TGGCTGCTGG AAGCCCCAGG GCACCGTGGG AGGGACAGGG GAACGTCCCA GACC

SEQ ID NO:1884: (Length of Sequence = 211 Nucleotides)

ATCTTTGCT CTATGTGCCA TCACCTGGAC ACTCTAGGTA ATACCCCCTG TTGGGCAGGG GTGAGCTCCC AAGGCCTCAG
GCAACCCAGC TCCCATGACT TTGCTGGGCT CAGCCACAT AACTGTTCTC ACAGGATAGA GTTGTAACCT GGTGCTTACA
GCTTTCTG GGCAGTGTG CATGCTGCCA GTGGCTGCAG CAGCAGCCCC A

SEQ ID NO:1885: (Length of Sequence = 212 Nucleotides)

ATTAGCTGAA TTCGCGTGTG GCGGTTTGGG TAGGCAAAGG AGACATCTTG GAACTGGACA AGGCCCTCCA AGTGTAAGGG
AGTCAACAGA CCACTGGGTG GGCAGCGAGG GGIGCGGTCC AGGTACTCAA ATATTTTCTC TGAGGAGCCC ACAGCCTTCT
GTACTCTGGG GTAGATGGAG AGCAGTACCT CCACAGCCTG GTGAACTGC AT

SEQ ID NO:1886: (Length of Sequence = 208 Nucleotides)

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CATCCGCATA GTATTTACAT CATGGGTATA GGCAAGTACT ACAAATCAGG NCTTTNCCTT GGGGATGGAT GTTTGGAGCT
AGTTTACCAG CACACCAAGT GGTAAAAGTG AACAAATACT TTTTGTATCC CACAGAATCT TAAAAAATAC TTTACTTGA
AAATGTCTCT ACTAAGTAAT CATATATATA TATATATNTG TATATATA

SEQ ID NO:1887: (Length of Sequence = 332 Nucleotides)

CTCGTTCACT GCCCGCCAAC TCCCATTCCA ACTTCCTTTT TACACTGGAT GTTCTATCA CATCTGAGG ACCACTAACC
CACCAGCAAG TCTCCCCCTG ACACACATTC ACGTAGGTCC ATACCCCTCA GAGTCTTAAA GGGTTAATGA GAAGCCACCT
CAGCTTTGGT GAATGGAGCC CCAGCCCCAA ATCCCTCCC CTGCAAATA TGGGACAAGT AGGGAGAGTC TGATGGAGGC
ACCAGGACAA CTACAACAAC CTCCTACCCC TCAGCTATAG ACACCTAGAT CAGGACAGAG GGATGCATAT GCCCTCTCCA
CCTTAACACC AA

SEQ ID NO:1888: (Length of Sequence = 224 Nucleotides)

AAGAGCTGAT TGAGGCTGCC AAGAGGAACG ACTTCTGTAA GCTCCAGGAG CTGCACCGAG CTGGGGGCGA CCTCATGCAC
CGAGACGAGC AGAGTCGCAC GCTCCTGCAC CACGCAGTCA GCACTGGCAG CAAGGATGTG GTCCGCTACC TGCTGGACCA
CGCCCCCCA GAGATCCTTG ATGCGGTGGA GGAAAACGGG GAGACCTGTT TNCACCAAGC AGCG

SEQ ID NO:1889: (Length of Sequence = 261 Nucleotides)

CACTTTACTG AGTCACACCC AGCTGTAAAC ATGTACCGT GAGANTCCCG CCCCCACCC CCAGGCCGCA CAGTCCGCGA
TGAAATGACA GGGGAGCGGG GAGGGTCGCC GGAGCGGGTG CCAAGCAAGG CAGGGCAGGC AAGTGCAGCA GGCGCTGAGT
TTCCGGGAGG AAGCCCGGAG GAGGTGGGGT GGGGCAGGAG CGNGGGCTGG GGACCCGGCC GAAGACCAGG GGGCCCAGGA
AGCCTCTTTT CGAAGGNC T

SEQ ID NO:1890: (Length of Sequence = 312 Nucleotides)

CTCGGAGACT ACGAGACGGT GGTCAAGGTG AAGCCCCATG ACAAGGATGC CAAAATGAAA TACCAGGAGT GCAACAAGAT
CGTGAAGCAG AAGGCCTTTG AGCGGGCCAT CGCGGGGAC GAGCACAAGC GCTCCGTGGT GGACTCGCTG GACATCGAGA
GCATGACCAT TGAGGATGAG TACAGCGGAC CCAAGCTTGA AGACGGCAAA GTGACAATCA GTTTCATGAA GGAGCTCATG
CAGTGGTACA AGNCCAGAA GAAACTGCAC CGGAAATGTG CCTACCAGAC AGAGAAGATT ACAGTATGTG GG

SEQ ID NO:1891: (Length of Sequence = 298 Nucleotides)

CCTAAAGGCC AGGCAAGGCT GATTCTCCAC TTCCACATGA GACAGAGCTG ATTCTGCAGG GAAACGGCTG GGGAGGCTCC
ACCTCTTTCC TCCCCACAAC CATTTACTGG GAAGTTGTGT ATACTTGGCA GTNTGGGAGG AAGGTACTTG GAAGACCTTG
CCAGCCATCT CCCACCCAGA CTCTTCTCA CCAGCACAGT CTTCAAGGCT TGGTGGGAAA GGTGTGTGGG AGTGGAGAAA
GACAAAGGGC CTTCTTNAAG GAGAGGAGCT GCAGAGAGGG GCAAAGGGGT TCCTAGCC

SEQ ID NO:1892: (Length of Sequence = 333 Nucleotides)

CTCAAGGTC ATCCAGTCCG TCGCTAATTA TGCAAAGGGT GACCTGGACA TATCTTACAT CACATCCAGA ATTGCAGTGA
TGTCATTCCC AGCAGAAGGT GTGGAGTCAG CGCTCAAAA CAACATCGAA GATTGCGGTT GTTCTGGAC TCCAAGCACC
CAGGGCACTA TGCGTCTAC AACCTGTCCC CGAGGACCTA CCGGCCCTCC AGGTTCACA ACGGGGTCTC CGAGTGTGGC
TGGGCAGCAC GCGGGGCCCC ACACCTGCAC ACCCTGTACA ACATCTGCAG GAACATGCAC GNCTGGCTGC GGCAGGACCA
CAAGAACGTC TTC

SEQ ID NO:1893: (Length of Sequence = 487 Nucleotides)

412

CCAGATAGAG TTTCTGTTTT TNAGTTTTAC ACGTGCCACA TCAGGGAAAG TTAGGTTATG ATTAAAGCAA GAGATGATAG
 ATGAACAAAC AAAGAAACAA CAACAAAAG CCCATGCAAG AGGCAGGAAA AGAGGCTGAC TGGTTAAAGA ACAGGCCAGA
 TTGGACAATA CTGATCAAGA GGGGTTTACA TTTGAAAGAA CAGTGCTTTA TTCCTCTACT GACTAGAACT AAAGGGATT
 TGGCCGGTA CGGTGGCTCA CACCTGTAAT CCCAACACTC TGGGAAGCCA AGGTGGGCGG GTCACGAGGT CAGGAGTTCC
 AGACCAGCCT NACCAACATG GGTGAAACCC CATCTCTACC CAAAATACAA AAACTTTNC CGAGCGTGGG CCCGGCGTTG
 GTTGGCTCAT ACATTINATN CCCCNCITTT NGGGGGCCCA NCCGGGCGGT TCACCTTAGG GTCAAAGGGT NCGGGGNCCT
 TCTTGGC

SEQ ID NO:1894: (Length of Sequence = 283 Nucleotides)

GGTGTGAAG TGGGCTCTGG AGAAGCTGGA GCTGACCAAG TACGCAGACA AGCCGGCTGG CACCTACAGC GGCGGCAACA
 AGCGGAAGCT CTCACGGCC ATCGCCCTCA TTGGGTACCC AGCCTTCATC TTCCTGGAAG AGCCACCAC AGGCATGGAC
 CCCAAGGCCC GGCGCTTCTT CTGGAACCTC ATCCTGACC TCATCAAGAC AGGGCGTTCA GTGGTGCTGA CATCACACAG
 CATGGAGGAG TCGAGGGCGC TGTGCACGCG GCTGGCCATC ATG

SEQ ID NO:1895: (Length of Sequence = 234 Nucleotides)

ATGTCCATTA GCCTCATTTG TCATCTGAGG GAGCTGGTGA GAACAGCCTT GGCGTGAAGG CATCCCTGGT AGAAGTCGGG
 GGAGATAGAT AGTCACAGTT CCCGAGTTGG TGGAAATNGG ATNGGAGTAG GGAGAGGCTN GAACAGACCC TTCCCCATT
 ACCTGGNGAA TTTTCTCTC CCAGTGCCTT AAACACTTTA TTTCATCAC AGGGGAGAAA TNCCTGTGAG AAGG

SEQ ID NO:1896: (Length of Sequence = 285 Nucleotides)

CTTTAAAGTG TAATAATATG ATTTTITAAA AGAAATTTAT TACTTGTTC AAAGGTCTTT TTAAACCAGT TTAGATTTCA
 AGAAAAATA AATGGAAATC ATCGAAATTT CATTTACAT TAATGGTCTA AAAATAAACC AAAGGACATT ATGTGTGCAT
 GTGTGTATAA GTGCACACAG AAATATATAT NCATATGNG ACTATATACA TGTGTGTATA TATGTGTATA TATACATNCA
 CTTGTATAAA TGTATATACA CATATACCTA TAAATGTGT ATGTG

SEQ ID NO:1897: (Length of Sequence = 288 Nucleotides)

GCAGGTTTAT GTTTTTATT ATGTATTINA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTCAC AATATACTTG
 CAGAACTGTG CCTGGSGSAT CATGGGAGCA GAGAACTTGT CCAGTGAATA GTTGTGAAG AAAGGAGTAA AAWCTCCCC
 AAACCTTAAA GGCATCCTTT TCGTAGTGTG TGTCCAYAG GTATGGCTGC TGAGCACCAG GGGCTGCTCA CCATGNTCCC
 AAGAAGCAGA GTCANGGAGG CAGACAGCAG GGTATTATTA GGTGCACA

SEQ ID NO:1898: (Length of Sequence = 398 Nucleotides)

CAGAAGTAAA AGATTTTTAT TGTCTATAG ACACCTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
 TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT
 GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGGGAAA AGGTGCATTC CCTAAGCTG AGGGGGATGG AATTTTCAGAA
 CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CAAGCTTTGA
 GAAAGCAATG AGCTCCACCT ACTCAGCAGA CCCACGGGTC GTCCCCCTGG ACGTGACTTA GCAGTGACCT TGCCTGCC

SEQ ID NO:1899: (Length of Sequence = 227 Nucleotides)

CATGGGGACC CGGGTTTATT TTATTAGGAA GGAAACAACC AAGCACCCCA TGTTCCTGCC CGGMACTCCC GGGGGGAACA
 TGCCAAAMAG CCGGGGATCG AACCAGCCC ACCTGTCTGT GRGGKCCCTT CCTTCTCAGG CCACAGAAAT AAACCCGTGT

ACTTATTATT GTTAGCACAA CATTACCAGA AAACGKTAAC GGCAGCCAAG CAGGACAGAC AGTTAAG

SEQ ID NO:1900: (Length of Sequence = 405 Nucleotides)

GGGATGCACT GGGTTTCACA TCAAGTTCTT GAGAGGWTCC CGAACGACTT CTCTGCCCCA GGGGAGTCCG AGCCACAGTT
TTCTGATCAA CTGATGATTC TRACCCGCTT CTTTCTCTCT GGGGGGTAAG ACACITGTTG TTGAGCTCTG GGGATGATGG
AGAACGACTC CTCGGCCTAG GAGTCTGAGG CAAAGCTTTC GGTTCCTGGG AAGAATCACA TTCGCTTCTC CCTCTAGATG
GCGTCTAGG TATATCTTTC ATTCCAGGAG AGGACCCAGA CAGGCTGTGC CTCGAGGGAG TOCCAGACCC ATCTCTAAGT
CCTGGAGAAG ACCCAGACCT GCTTCTCCTT GATGGAGTTC TGGTAAACCA TCTTTCATTT CAGGAGAAGA TGCAGACTAC
TTCTT

SEQ ID NO:1901: (Length of Sequence = 244 Nucleotides)

ATRAATCATA TGCTAGTTTA TTTATCTTAT TATTGAGAGA TAATTTCATG ATGACAGTTA TCAATAATCA ATTACAATAT
CAAGAAATTC AAAGAACAAA ATCTTGCGA GACTATGCTT TTGTATTGG ATTTAAAAAG TATGTGATCT CATTTTTACA
TACCAAGCTG AGAGGCCATT TAGACTATCT CTTTGCTAAT TTTTGCTTAC TGCTGTAGGG AAGAAGATTT CCAATGAMCT
TTAG

SEQ ID NO:1902: (Length of Sequence = 329 Nucleotides)

TAAAAATAAA AAAATAAATA AAATTTTAAA AATAATAAAA ATTCACTATA TACACATATA AAGAAATAAA AAGAAGTCTC
AGTTGCAGCT ATTGTICAAA ATTAATATCC ATTTCTIWTW ATATACGGTG AATATTGCGC AATTATAGAT CTGGATTTTA
AACCACTTAA TGAAGCGGCA ACACCAGGTG TTTTAAGGTG TTGGCATTCT TCGCTGATTT GGCTGTTCCC AATGTTTTACA
TTATTTAATC TTGCAAAAAT GGTCTGATG CACTTGGGAT GTGAAATGCT GTCCCGTTTT ATTTTTTTTAA TGTGTATC
CTGGGGTGT

SEQ ID NO:1903: (Length of Sequence = 421 Nucleotides)

ATTTTATATT CCACAGTCAG GTGGGTCTGC GATASTCAIT TAATGTTAAA CGCCATCAGG GGCTCTCTCT CCCGTTTCTG
CCAGGGGCTT TTCTGTCTT CTCTTGCTC ATCATCATCA TCGTCTCTCT CTCTCTCTG GGCAGATCTT CTCTGGTGGG
GGCTGCTGC TGGCTCCGAG GGGGCATCCG CAGTCCGTCT GGTCTCTCC TCCTCAGGC TGGGCAGCTG GCCACCACTT
CTCCGACTCG ACCCTTCCAA CAAGCATCGC AGGGCACTGT CCTCGGGGGT ACAGACCGTG GTCCACATTT CGCTACCACT
CTGTTCCAG NCATCCAGGG TACACGAGCT GCGTGTAGGC CGTGTCTCT TGGGGCTCGA GGCTCTTTCT GCTGGTGTCT
TTGGACGGGC GGGTAAATTC T

SEQ ID NO:1904: (Length of Sequence = 423 Nucleotides)

GTCTGTGGC CCTGTCTGAA GTGACGGTGC AGCCAGGCTG CTCCCTGCCC AGCAACCCCG AAGCCATTGT GCTGGACGTC
GACTACAAGT NTGGGACCCC GATGCAGAGT GCTGCAAAAG CCCCATATCT GGCCAAGTTC AAGGTGAAGC GATGTGGAGT
TAGTGAACCTT GAAAAAGAAG GTCTGCGGTG CCGCTCAGAC TCTGAGGATG AGTGCAGCAC GCAGGAGGCC GACGGCAGAA
GATCTCTTGG CAGGCAGCCA TCTTCAAACT GGGAGACGAC TTCCGGCAGG ACATGCTGGC CCTGCAGATC ATGACCTCT
TTCAAGAACA TCTTCCAGCT TGTCGGCCTG GACCTCTTTG TTTTCCCTA CCGGTGGTG GCCACTGCCC CTGGGTTCGG
GGTGATCGAG TGCATCCCCG ACT

SEQ ID NO:1905: (Length of Sequence = 370 Nucleotides)

CAGAACCAGA ACATTTTAC TCTTGGGCT CTGGGAAGGG CCAGGCAGAG TGCAAGGTGT CCACAGGAGG GGTAAGCAGA
GAGGAGCTAC AGGGGGCTGC AGTCTAGTA CCTGTGGG GAGGACTGAG GGATGGTGAG TTTGGTCTCC GGAGGGGGCT

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CCAGTCCTGG TGCCCACTTC TNACANCTGC CCTCCTGAG TTCACACTGG AGTCCTTGCA GTCCTGAAAC CACAAGGCCT
 NOCTGAACCC TGGGTCAGGA GAGAAANACT TGGGGAGGGG AAAGGACGGC GTGGGCTACC CATKACGGCT CTGAGTTCTT
 CCTGGGGCTT GTGTCTTTTC CTGGGCAGAA GAGGGCACAG CCAAAGGCAA

SEQ ID NO:1906: (Length of Sequence = 415 Nucleotides)

GTCACACCTT CATTCACTGA GGAAGAAATG CTTTCACTCT GGAATTAC AGCATCCCAA TCTGACGTTG TACCCGTTG
 ACACGTGTTG TGAGCCCCAA GTTTCACGA GCTCTGCAA GTAAACGGAC ATTGTCACA TTTGTAGACA GCTGTCTTC
 CAGATAAGTG GATGTTTTCT ATGTGACGAG AGATGCTACG TCGATGCATG GTGAGGAAAG GACAAAAGGG GCACTGGAAC
 CTATTCATGA ATCTNCTAA TGAATCCCC TTGGTCTCCA ATAATTGTT GCCATCTGAG CCCATCAGCT GCTCTGCAGA
 CAGGCCTGAT GTCGGTGAT CCACAGCACT TAAACCATT TCACCTGTCT ATTCATTTA ACTCTTCATC AGAACTAGAG
 TCATTAGCAT GCTGT

SEQ ID NO:1907: (Length of Sequence = 214 Nucleotides)

TGAAATCCTG TACGTGTCAA CTTTGAAATG TATGTGTGTT GGTGGGTGG TGGTATGTG ATACGGTTTG GATGTCTGTC
 CCTCCAAAT CTCATGTTGA ACTATAATCC CCAATGTCC AGTTGACGTG GTGTTGGTT CCATGGCGGG GTACCCTAGG
 GATTCATCTG TTTCTTCAC TTCCCTTGC ATCTGAGATC CTGCTGAAA CCAC

SEQ ID NO:1908: (Length of Sequence = 410 Nucleotides)

CAGGAGAGCT GGGCAGATGT CCCAAGCCTG TNAGTGGCCC TCCCTGGTGC ACTGTCCCG AAACCCCTGC TTGGGAAGGG
 AAGCTGTGG GTGGGCTAGG ACTGACCCTT GTGGTGTGTT TTTGGGTGGT GGCTGGAAAC AGCCCTCTCC CAGTGGCAG
 AGGCTCAGCC TGGCTCCCTT CCTGGAGCG GCAGGGCGTG ACGGCCACAG GGTCTGCCCG CTGCACGTTG TGCCAAGGTG
 GTGGTGGCGG GCGGGTAGGG GTGTTGGGGC CGTCTTCTC CTGINTCTT CCTTTCACCC TAGCCTGACT GGAAGCAGAA
 AATGACCAA TCAGTATTTT TTTTAATGAA ATATTATGTC TGGAGGCGTN CCAGGCAAAG CCTGGCTGTA GTAGCGAGTG
 ATCTGCGGGG

SEQ ID NO:1909: (Length of Sequence = 339 Nucleotides)

AAAATTAAAT CCAAATTTTA TTAAGGATTT CAGGTACAT ACTTCAAATT TCTAGAATGG AATGGAATCA TTTTGAACT
 GGAAAAATGG CATAAACT GACGTCCCTT AAAACTTCAA TTTTATAAAG AAAATTCTTC TGCAAAACCAC ATCCCTTTA
 TGTAACAAGA CTAGGTATTA TCTACACCTT CACTTTGGCA ATAGCTATTT CCTAAAGAAT GAAAAAGATG ATTTTNTAC
 TTCAGTTTAT TAAAAATGGG ATTCTATCTT TGAAGTTCAG AAAAAGCTGC ATTTGATGA ACTATGGGT AAAAATAA
 GCACATAGTG TCTAATCAA

SEQ ID NO:1910: (Length of Sequence = 439 Nucleotides)

GGCCAGGGA GCACCAATCA CAGCAGGGG TCTGGCCAG GTGTGGCAG CCCAGGCCTC CATTGCTAA TGATTAATAC
 ACTGTTTGGG CTGGCCAGTT TTTATGCAT GCAGCTGAC GATTGAGCAC AGTCAGGCCT TTGTATTTAA AATGAAAAAT
 GAAAAACAA ATTCAAACC TATTCAAATG GGTCTAGTT CAATTTGTTT AGTATAAAT GTCATAGCTG GTTTACTGAA
 AACAAACACA TTTAAATTTG GTTACCTCA GGATGACGTG CAGAAAAATG GGTGAAGGAT AAACCGTTGA GACGTGGCCC
 CACTGGTAGG ATGGTCTCT TGTACTTCGT GTGCTCCGAC CCATGGTGAC GATGACACAC CCTGGTGGG ATGCCCGTGT
 ATGTTGGTTT AGCGTTGTCT GCATTGTCTA GGAGTGAAC

SEQ ID NO:1911: (Length of Sequence = 342 Nucleotides)

415

AATGCACCCA TTTGGCTGCC AAGAGCTTCT CACTGCCTTG CTAGCAGCCT GCCACTGTNC CCTGGCAAAT TGAAACCACC
 CACGCAAACA CTCAAAACCC CAATCTCCTT GCTAATAAGA TACAACCACT TAACACCGTG AAAAATGCAC ATCTCCAGCC
 TTCATTCAA AAAAGAGCTC TGTACTAAAT GCAATATGCT TTTAAAGGGG GTTTTACAGG GACCAATCTC AATGCAAAGA
 CCAGTACCAG ATGTCTGAGT TTTGGTTACA GGTTTATAAT TAGACACAAA ATTCACTCCA CACTGGAGIT TTACTTTCAA
 GCTGGAGTTA GCATTAGTTC TA

SEQ ID NO:1912: (Length of Sequence = 380 Nucleotides)

TCATGCTTTT AATACAACT TAAAAAATC TGGACAATA GAACTGTAC AGATTTGATC AATCTTTTTG TTTTGTTTT
 AACTAAAAT CTCTAAACAC ACCAATGTCC CATTCCAAAA TATTGCACAA CATTCTGAAT ACAAACCCCT TGATTGTATT
 CCTCTNCAC TAAAGAAAAA AGTTCATGAC CCTGCTCCCC GGGCTCCTCT CCAGGCTTGC CTCAATGCCC CCTTCCCATC
 CCTAGGGAGA AACTAGAGA ATCTATAACT CACTGCATTG AGAAAAACAC ATCATTCTGG ACTAACAGTT TTCCATTCTT
 CAGANGNTA ATCCACCTTT TGGATTTGTT CCTGGGGAAA GAGGGGTAGA TAGAGGGATG

SEQ ID NO:1913: (Length of Sequence = 361 Nucleotides)

GAGACAGAGT TTTGCTCGTT GCCCAGGCTG GAGTGCAATG GCGTGATCTC AGCTCACCAC AACCTCCACC TCCGGGGTTC
 AAGCCATTCT CTGCGCTCCG ACTCCCGAGT AGCTGAGATT ACAGGCATGT GCCACCACGC CCAGCTAAGG CTTTGTATTT
 TNAGCAGAGA TGGGGTTTCA CCATGTTGGC COGGCTGGTC TCAAACCTCT GACATCACAT GATCCCCCG NCTCAGCCTC
 CCCAAGTGCT GGGATTACCG GTGTGAGCCA CTGCCCTGGG CTCTCCAGTA CATTTTTAGG GGGACGATCA ATGAGGATTC
 TCTTCTCTGA GTTACTGCAT GTGTTACAGT TTATAATCCT T

SEQ ID NO:1914: (Length of Sequence = 409 Nucleotides)

GGGGCCTTA CAACTAGGTA TGGTGGATAT TGCCCGACAG ACGGTTGAAT TTCTCTACGA AGAGAATGGT GGCATCCCAA
 GAGACCTTTA TCTTCCACC ATTGAAGACA TTAAGAGCA AGCAAACAAG TTCACAATTG ATAAAGTTG AAAAGGTCTC
 ACAGTAGTAA CCCGCTCTCC AGACAGCAAT AATGTAGCCA GCAGTGTCTG TGGAACTGCT CTGCCAAAAT TTGCCATCCG
 AGGGATGCTG AAAACCTTTG GGCTTCAITG AGTCGTCTTA GATGTTGATT CAGTGAATGA ACTGGTGCAG GTAGAAACGT
 ACCTCCGCAG TGAAGGTGTG CTGGTGGGAT ACTTGGTATC CTATTTGACA TGTTGGGAAA GGGCCCCCAG CAGGCTACCG
 AARGGACTT

SEQ ID NO:1915: (Length of Sequence = 402 Nucleotides)

ATGGTTTATA GCAGGAATAC TTGTTCTGAA TGACTTGGAG GGAAAGTGTG TGTGTATATG TGTGTGTGTG TGTTTGTTAG
 TTTTGTGAG GTAGGGGAGA CTATTTTGTG GGTTCAGTCA CTCCAATTAT TGCCACAATG CACTTTCCCT CATAACTGCC
 CCACCAAAGG TCTTAAAGC CATTTTGGGA GCCTATTGCA CTGTGTTCTC CTACTGCAA TATTTTCATA TGGGAGGATG
 GTTTCTCTT CATGTAAGTC CTTGGAATG ATTCTAAGGT GATGTTCTTA GCACTTTAAT TCCTGTCAA TTTTTTGGT
 CTCCCCCTCT GCCATCTTAA ATGGTAAGCT GAAACCTGGG NCTACTGTGG CTCTAGGGGG TAAGCCCAA AGGCCAAAA
 AA

SEQ ID NO:1916: (Length of Sequence = 382 Nucleotides)

GAAATGAGAC TTATTCTGA AATTATTAAA AAGAACAGAG ATGCTCCATT TGGCTGCATG CAGGGGGGGC GGTGGGGGG
 ACAGAGGGGA GGACAGGGG TCAGCCAGGG GGACCGTGTG TCTTTCCAC GCAGGACACT GTGCATGGGG CTCTGGGTGC
 ATCTGCCCAT CTGTCTATGG GCCTGTGTGT GTGTINAGAG CCAAACACAG AGAGCTCCGT GGGTCTGTGT GTATCCAAGT
 GCTAAAAGGC AGGCTGGCTT TCTGGGGCCC ACAGCTGGCG GGCTAGTATC CTGGAAGGTT TCACTTGGTG GCTTGGCCTA

GGGACCAGCA AGGGCTTGGN GTTGAAGGG GTGGCTCAAG GAAGCCTCTT TCTCCACTCA CA

SEQ ID NO:1917: (Length of Sequence = 375 Nucleotides)

GAGATTAAAA TAAACAACAC AAAATGTATT TAAATGAGAA ATTGAAATAT TAAAAATAAT ATTAGGTGAC ATTA AAACTG
TCATAGAAAT AAACGTGTATA TACAACAAAT AAATCAATGA TTGTTAACTT TTTTAGACAG TTGGAATATC AGATTATAAT
GAATAGCATT ATTAGCCAGT AAAAAGAGCA TATAAATTAT TTTAAAATTC CAAATAAAAA TATTTAAAAT TTTGAAATTT
TGGACCCAAA ATTATGTCAG TAATTTTCATG AAAGTAGATC TCCAATAGGT CCTATATTCT AGACACTATG AAATGACATC
AGAAACCGTC AATTAAAGTG TACCCACAA GTGATAACTA GCTACCATAC AAGTT

SEQ ID NO:1918: (Length of Sequence = 315 Nucleotides)

AATATACAGT ATGATACACT GATGTGCAGA ATGTGATTAG TTTATTAAATC ATATGTGAAA ATATTAGTAG CTACATATGG
CCAGAATAGA TTTTCTCTC TACAAATGTA AGTTAGTGT GATAGAATTT GTTATGCGAT ATTGGTTCT TTGGTTTCAG
TCTCAATGCT TTCTCTTGG CATTTTCATG ACTCTGTAA TTAACCTCAG CATCAATTTT CTTTAAAT CAACAGTTAT
TCAAATGAT CGGAAATTAA ACTGTATGT AGCTAGTTAT CACTTTGGGG GTACACTTTA ATTGACGGGG TTCTG

SEQ ID NO:1919: (Length of Sequence = 285 Nucleotides)

CAGAAGTAAA AGATTTTAT TGTCTATAG ACACCTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTTCATCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT
GATCAGTAAA AACATGCAAA AGTNGAAGG AAAGGGAAAA AGGTGCATTC CCCTAAGCTG AGGGGGNTGG AATTTTCAGAA
CAGAGWGGC AGGGTGACA AGTACCAGGT GGCTCTCCCT TTCCC

SEQ ID NO:1920: (Length of Sequence = 181 Nucleotides)

GCAGGTTTAT TTTTTATTT ATGTATTNA ACTGACTTAT TTKGTATCC CACTAGAACA ATACATTCAC AATATACTTG
CAGAACKTG CCTGGGCAT CAGGGGAGCA GAGAACTTTT CCAGTGAATA GTTTTGAAG AAAGGAGTAA AATCTCCCC
AAACCTFAA GGCATCCTT T

SEQ ID NO:1921: (Length of Sequence = 351 Nucleotides)

AGACGGGGTC TCACTCTKTC GCCCAGGCTG GAGTGCAGTG GCGCAATCTC AGCTCACCGC AACCTCCGCC TCCCAGGTTA
AAACGACTCT MATGCCTCAG GCTCCCAGC AGCTGGGACC ACAGGCACAT GCCATCATGC CCGGCCAACC TTCTGTACTT
TTWAGTAGAG ACGGGGTTT ACTGTGCCAC ACAGGCTGGT CCGAACTCC CGACCTCAGG CGATCAGCTR CCTCAGCCTC
TCAAAGTGCT GGGATCACAG ACGTAAACCA CCATCGGGG CCCCAGTCTT TTCTTCAGAG GGCTCCTNAG CACCCCAAC
CCCAAACCTG AGGCCTGTGA GAGTCTATCC G

SEQ ID NO:1922: (Length of Sequence = 198 Nucleotides)

CCTCATCTGG ACACAGATGA TTTGCCAAG AAGCGGCTG CCCAGATCTG CAAACCTTGC AACCCAGCAC TCTTGCAAT
CTCGCTTAGC GTGTCCACAA CTGGGATGCT AGCTGGCGTA AAGATGCTCA CGCAGCCACC AGTGCCTCTG CCGTCCATAA
GTGAGTGAG ACTTACCCCTC TGAGAGTGGC ATCTGCTG

SEQ ID NO:1923: (Length of Sequence = 303 Nucleotides)

TTGATTTGCC TATGGTGTGA AATCCTTTGT TATTTTCTA AAAAAATAAA ATTTAAAAAG AAAGAAAAC AAGGAAGAAC
AAGANGCTAT TTACCCAAAG TGAGCTTCA GTTTAGTTT TGCATGGCTG TTTGACTGCC TTTCCGCCCT ATGAAAATCA
AGAAAATCTT TTTTAAAAAT GGAGTCTGC TATTTTCCAC TCCTTGAGA TAATACAAAT TCAGTTTGTC AGGTTGGATG

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GTGAGTIGGG AGCTGTGATG GATCTGTTGG CGGGTTTTGG ATGTGTAAAG AATGATATAT ATA

SEQ ID NO:1924: (Length of Sequence = 231 Nucleotides)

GTCCCTCCCTG ATTCTCAACC TTGCAACCT GCCTTCCGTC ACTGCTAGGT CCACGTAGGC TTAACCTTGA TCTTATATGT
AGGACCGGTC TTCACCTTAA GCAAGAGAAA TGTAAGAAGT GNTTCCCAA CTCAGTTGCT GGCCAGCTT TGGCCTCGTG
TTCCCTTTCT GAGGACTGAC CTTTGGTATT GCTCTGGAGT CTCATATCCC CTTTGGCCCT AACTGACCAC G

SEQ ID NO:1925: (Length of Sequence = 249 Nucleotides)

GTCTTTACTT AACCATTTCTA TTGTGGGAA TTGGGTTTCC ACTTTTTTNT TATAGATAGT GGTGCACTGA ACATTTTTAA
ATAGCTTTTT NCTTCAGTGT AATTATTTCC NTAGAGAAAG TTACCAAGAG TGGTTTTACT AGTTCAGAGG GCCTCAGGAT
TTTATGGCT CTNCTAGCG GTGCTCTATT ATCCINNAGA AGACTTGTAT TACTTCCAGT GTCAAGAAGG TTGCNCTTCC
ATGGAATGG

SEQ ID NO:1926: (Length of Sequence = 367 Nucleotides)

TTTTTCTCAG CAAGGAACAG TCATGAGAAA GAGAATGCGT TCCTAGGGGG AGGTCTCTAA AATGGCCACT CTGGGACTGT
CTGTCTTATA TGGTTGTGGA TAAGGGATGA AATAAACCCC GGTCTCCCTT AGCGCTCCCA GGCCTATTAG GACGAGGAAA
TTCCCGCCTA GTAAATTTTA GTCAGACTGG TTGTCTGTTT TCAAACCTG TCTCCTGATA AGATGTATC GATGACAATG
CATGCCTGAA ACCTCATTAG CAATTTTAAT TTGCCCCGT GCTCTGCCAT TTGCCTTGTG ATATTTTATT GCCTTGTGAA
GTATGTGATC TCTGTGACCA CAACCTATTG GTACANTTCC TCCCTT

SEQ ID NO:1927: (Length of Sequence = 231 Nucleotides)

CTTTTATTGG GGGCGGATAC CGCAAGGGCC CGCCACGGT CAGGTIAGTG TTCTGCTCTT GCAGAGGCGC KACAGCCTGA
CACCTCCACC TGCCACCGC CCGGGTTAG TGAACATGC AAAGCTCAGA GGGTGGAGGC AGGGGTGGTC GCTGCTGAGA
CCAGGGCTGN GTGCAACAGG AGGTCAGCA CAGAGCCTGG CTGGTGTCCC TGGGCCCAA GGGGGCTGGG G

SEQ ID NO:1928: (Length of Sequence = 283 Nucleotides)

CCCCTGTCTT CCCCTGAGCC CAGGTATGTA ATTCTACAC AACTGATCG AGCTGTINTG TGTGTGTATA TGTGTGTGTG
TGTGTGINTT AATGTGACAT GCATGTACTG ATCCNGAGAA GCCTTTATAC CAAGAATAGA GCTGGGATCT CAAGCCACC
CTCCAAGAT CAGACAGCAG AGTGAACCAG GAGGCCAGA CAGGCCTTGT GTCARATGGC AGACGNTGCA GCAGGAAGCA
GAACACGGG ACGGGGRNCA TGGGATGCTA TKGGCAGCCA GCT

SEQ ID NO:1929: (Length of Sequence = 287 Nucleotides)

CTAGGAAGTA GGGAGAGAAT TTACTAAGTA AGGAGAGAAA GGAAAAGAA CAAACATGGA ATATGNTCAA GCAAATAACT
TCCAACAGAA ACAAGANGAT ATGTTTAAA ATATATTTCC CTTGCCAAT AGTAAACTT ATTTCAGGCA CAATGCATTA
CTGAGGTGAA ATTAAAGTTA CATAAATTG AAAACATCAC ACTGGANAAC ATTTTCATGGG GCTCAACTGA AGGTGGCATA
GTCCAGGAAG GCATTTGGAC ATGTATGGGG TGTTTCTTG TTGCCCC

SEQ ID NO:1930: (Length of Sequence = 357 Nucleotides)

ATGGAACACT ACTGCAACAG CTCCACAGAC CGCGGGTTC TGCTCATGTT CCTGGACATC TGTTCAGAGC TGAATAAGCT
CTGCCAGCAC TTTGAGGCGG TGCACTCTGG CACCCAGTC ACCAACACC TCCTGGAGAA ATGCAAAACC CTCGTTAGCC
AAAGCAACGA CTTAAGCAGC CTCAGAGCAA AATACCCTCA TGATGTGGTG AACCACCTCA GCTGTACGA GGCCCGGAAC

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CACTACGGCG GCGTGGTCAG CTCATCCCC CTCATCCTAG ACTTAATGAA AGAATGGWTC GCCCACTTCG AGAAGTTGCC
GCGCAAGGTG CTGCAGGGCA CGCGGGCTGC CTGCACT

SEQ ID NO:1931: (Length of Sequence = 343 Nucleotides)

ATCACTTCCC CACCCACAG GATCTGCCCC AGAGAAAGTC CTGCTCGTC ACCAGCAAGC TTGCGGGTGG CCAAGTTGAA
TGATGCTGCC CGGGGCTCTG CCAGATCCTG AGACGCTTCC CCTCCCTGCC CCACCCGGGT CCTGTGCTGG NTCTGCCCC
TTCTGCTTT TGCAGCCAGG GGTGAGGAG TGGCTCGGGT GTGGGCTGGA GAGGCAGAAG CCCTTTCTCTG TTGGTGTCCC
AGCACATGGA GCCCCTTGGG CTGAGCACCA AGACCTTGAA CCTTTTTTGT TTTACCTTTT TTCCAAATAA CAGTTTGAG
AAATATCAAT GAAATCTGGG GGT

SEQ ID NO:1932: (Length of Sequence = 314 Nucleotides)

TTTCATGGGT TTTGTFTTG TTTATTTGGA ATACTGAAAA AGTCCTTTGG GCTCTGTGGG GTTCCCCACG CTCACGGCTC
CTTTCTCCA CACTCACTGC CCTTCTTCCC ACAGCAAATC TATTTCAAGG ACAGTACTTT TTAAATGAT TAATGTTGAG
TTCTCACTA GCTCTGCAGA ACTAGAGGAG CTGTTTGCAT CTGCTGTGTC GGATGGAGTT TCTTTTATCT GACACCAGGT
CTCCAACCAC ACTGATGCAA GGCATTTTAT CTACAGAGCT CAACTAGAAC CCCTTTTTCA TTAGGCTACT CCAA

SEQ ID NO:1933: (Length of Sequence = 378 Nucleotides)

AGCTTCTGC GGGACCACAG CTATGTGACT GAAGCTGACA TCATCTCTAC CGTTGAGTTC AACCACACGG GAGAGCTGCT
GGCCACAGGT GACAAGGGCG GCGGGTCTG CATCTTCCAG CGGGAACCAG AGAGTAAAAA TGCGCCCCAC AGCCAGGGCG
AATACGACGT GTACAGCACT TTCCAGAGCC ACGAGCCGGA GTTTGACTAT CTCAAGAGCC TGGAGATAGA GGAGAAGATC
AACAAGATCA AGTGGCTCCC ACAGCAGAAC GCGGCCACT CACTCTGTT CCACCAACGA TAAAACTATC AAATTATGGA
AGATTACCGA ACGAGATAAA AGGCCCGAAG GATACAACCT GAAGGATGAA GAGGGGAA

SEQ ID NO:1934: (Length of Sequence = 239 Nucleotides)

ATTTAAATG ACAGCCTTCC ATTTTTCGAG AAAGTACAAA CAGAACTGCT TTAGCACCCA TCGAGCCCCA AACGGGTAAG
GTAAGCCAAG GTTTTAATGA CCAGCCCACT ATCTAAGCTT CCAAACGGAT GCCAGCCCAT CACATACTYA CCTGGGAGG
CTGCTGCACG GGCATTCTCC YGATGCTCAC GGCATTGGK GTAGGTTTCA RGATCGCCTC TTGAGGAAG GACTTCAGG

SEQ ID NO:1935: (Length of Sequence = 319 Nucleotides)

TTAATTTTTT TTTCCCATAG AGGAATAGCA TTACAGTCTA ACAATCAGAA TTCTGTTACA CACATACACA GGCATGCCAC
ATGACCCAGT TGAGGTGGTT GTTTCCTTGA GTCTGTTGAC ACGTCACATG GTCAAAGTCT CCTCATTTCA GCCAGTCTCA
ACACAAAACA CCCAACAGGG ATGCACTCAA CTGTTTGGT CCATGTGGAA CTAGGTGGCA GGGCGAGAGG GAAAGTAGTA
GAAGGGGGCT ATGGTGTGTC TGCATTCACT CCCCTCATAT AAAGCCACAT GGATCTAGGG GGGGTATCCA AGAGCTCTG

SEQ ID NO:1936: (Length of Sequence = 415 Nucleotides)

CTATTTTTAC AAATTATACC TAATGAGTAA AATTAGTGTA AAGTGATAAC ATGCTTCTAC CTGTATTTCT AGTGACCCCT
TAGCGGCAGG TATTTATACC TGGTATTTAT GATGCAGTAT ATAAGTGGT AACAATAACT GACAGTATTG TGCTTGCTGT
ACATGCTGG TCTTTTGAAA CAGATTTTAG TAAGCATTTT CCAGAGGTAA AACTGTGTCC TTATTTCTAAT TTTATTTCTA
GGGCAAAGTA GACAGGGATT ATTTCCTTGA ATCTATTTCC AAATTAATAT TTTTCTTT GGTATTTCTA CACTTTAAGG
CCATTTGGTG CAATTTAGAA AGTGTGGCC TCCTTCCGC TAGCCACATT CAAATTAAC TTCCAAAACC TCAGGAACAG
TACAAGGAAT TTGAA

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SEQ ID NO:1937: (Length of Sequence = 393 Nucleotides)

TCACTCTTGT CACCCAGGCT AGAATGCAAT GGCACAATCT CGGCTCACTG CAACCTCCGC CTCCCAGGTT CAAGTGATTG
 TCCTGTCTCA GCCGCCCAAG TAGCTGGGAT TACAAGCACT TACCATCACG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA
 TGGGGTTTCA CCATGTTGGC CAGGCTAGTC TCAAACCTCT GACCAGCGGT GATCCACTCA CCTCGGCCCT CCAAAGTGCT
 GGAATTACAG GCGTGAGCAC CGCGCCAGC CTGINTTTCA TGTTAGATCA TAATATGATC TCACCAGATC CTTACTGAAA
 ATGTACCTTA TTACAAGTAG CTAAATTTC ACATAGAGGG NTAAAAAGAT TGGGGAATCA GGTATGACT TTT

SEQ ID NO:1938: (Length of Sequence = 407 Nucleotides)

GGCTCCCTG TGGGGTGCAA TGCACTGGCT CAGATCATAG CTCACTGCAG TCTCGAATC CTGAGCTCAG GCAGTCTACC
 TACCTCANCC TCCCAAAGTG CTGGGATTAC AGGCGTGAGC ACCCGGCCA GCCAGAACAT CTGTTTTTAC ACCCAGAGAG
 CGCCCTCGT TAGGACAGAA CCACGGTGC CAGAGCCAGG AAGCGCCCT CCTGGCGCCC AGCATCTGAG CTTCTACAG
 TGATGGGCGG GCTCAGGAGA GGACAGGGAG TGTGGTGA AGTTCCACAG CTGGCCGCGT GGGGGGGCCC TTGCACCGCA
 CTGCGGCT CTGACTGCC CGATCCCCG CAGCCCTGT GCGGATTGC ATTTYCTCC TMTCTYCCAG GGTACTGGCC
 CCAGCAA

SEQ ID NO:1939: (Length of Sequence = 412 Nucleotides)

GACATGCCAC CACACAGTT AATTTTTTGT ATTTTCAGTA GAGATGGGGT CTCACGATGC TGTCTGGGT GGTCTTGAAC
 TCCTGAGCTC AGGTGATCCA CACTTCGGCC TACCAGAGTG CTGGGATTAC AGGCGTGAGC ACCCGGCCG GCTAAAAGAA
 AGGAGATTCT AATGCATGCT ACAACACCGA TGAACCTTGA GGACATGACG TTACGTGAAA TAAGCCAGGA ACAAAGACG
 AAGGCTATAT GAATCCACTC ATATGAAGTA CCTCGATTAG CCAATCCAT ACAGAAAGTA GAACAGTGGT TGCCGCGGGG
 AGGGGGAAT GGAAAGCCTA TATTTAATGA GTCCAGAAGC TTTTTTTTGG TTTTGTTTT TAGACGGAGT CTCGCTCCTG
 TTGCCCAGGC TT

SEQ ID NO:1940: (Length of Sequence = 421 Nucleotides)

ATCCATCCCC TTGCCCAGGG CCTCACATGC CCGGCTCCCC CAACCGTCC TCCCCCTGG GCTGCGGGT CAGCTGTGGG
 CCCAGGCTTT GCAGGCCCA GCTTCAAGAC AGTGGGACAC AGAAAACACT TTGCAGCATC GCCTCTCCCT CCGCCACACC
 CAGGTCAGCA GAGATGGGCG CCCACCGAG AGATCACAGC TCTGGTACAG GGAGGTGGG AGGGTTGGAG AGGAATGGAG
 AGACATGTCA CCTCTATAGA AACCGTCCA AAGTACAAGC TAAGCAGGGG GAAGGAGGAG GSCCAGAGAG CAGCCGGAAA
 GAAGAAAAGA GGAACACGGC AGGGGGTTCT KGGGGAGGAG GGCCTCAGC CACCCCGCAG ATGAGCGTCT TCACCAAGAA
 GGTGTTCTTC GAAGTKGCGG T

SEQ ID NO:1941: (Length of Sequence = 377 Nucleotides)

GTCAGCTCTA GAGGCACCCT GCATCATGCC CACCAGGGTG ATCCCCCTGG GATNGACCAT CTCGGGATAT GAGGCCTCGG
 AGGCTGGGGT TGAGATTTGG TCCTGAAGAG CTTATAGCCA GATTGCCACA TTCAAGTGTA AGTCCAGGAA AGGGGCAGGC
 GGCAGTCAC AGGGATTTAT CAGTTCCAGA ACCTCACAGT GATAAGAGGC TTTAGAGAGC ATCTAATCGA GACCTTTAAT
 TTTTCGGGGA GAGCAGCTGA GGCGTGTGG AAAATTAGTG GAGAGCTGAC AAGTGTCTTG GCTCCTGGCC CAGGGGTCCG
 TGGTCCANCA CGTGTCTGTT CAGTTGGAAG CAAAGGGCTT GCCCGTGATT ACCTCC

SEQ ID NO:1942: (Length of Sequence = 401 Nucleotides)

TGAGAACATT AAGAAGGACA ACAAATTAA ACATTCTTTA ATAAATTCC TATAGAAAGC TCAGTCATAG GGCAATACT
 CATTTCTCTT TCCCATATCA CGAGGATTG AGAGCTCCA ATATTCTTTG GAGAATAAGC AGTAGTTTTG CTGGATGTTG
 CCAGGACTCA GAGAGATCAC CCATTACAC ATTCAAACCA GTAGTCCCTA TTGCACATAT TAACATTACT TGCCCTAGC

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ACCCTAAATA TATGGTACCT CAACAAATAA CTTAAAGATT TCCGTGTGGC GTGAACCATT TCAATTGAA CTAATATCCT
TGAAAAAAT CACATTATTA CAAGTTTTAA TAAATACAGT AGAGAGCTGG CATTTTTCTA AATACTGGAT TTCAGATCTG
G

SEQ ID NO:1943: (Length of Sequence = 351 Nucleotides)

CAACTCAGGT TAGCAACTGC AGGAAACTT TCTTCATTTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTTCTCAG
AGAAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACTTTTA TTTTATCTC TTTCTCTACT
CATGTGCTTA ACTGGTGAAA TGATTCTGTA GAAATAGATC CTTCTGATTC TGCATCTCAT TTCTTATGG CAACTACAAC
AGGAGGAATC CAGCTGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGTGGGG
TCACTCACTC TGGCCTGCGC ACTGGGGTTG T

SEQ ID NO:1944: (Length of Sequence = 406 Nucleotides)

CCCCAGGCTG TCTCAGAATC TTGATGGGGT GGTCAATTGAG CTCCTCTTCC GCCAGAGCAA GATCAGTGAA GTCTGGGAG
GCAGTGGCTA CAACTCGGAC CGGCTCTGCC TGCCCTACAT TCCTCAGCTG ACAGATGAGG ATCGTTTATC CAAGAGGAGG
AGCAITGGAG AGAACATCTT CCTGAGGAT CCGAGGATG GTCTGGTGAA GACCAACATG GAGAAGCTGA CCTTCTATGC
CCTCTTAGCT TCAGAAAAAC TTGATGTAT TGGCGCCTAC CTCCTTGAGA GGCTCATCG TGACGTGGGT CGNCATCGAT
ATGGGTACGT GTGCATTGCT ATGGAGGCTT TGGACCAGCT GCTCATGGCC TGCCACTGCC AGAGCATCAA CCTCTTGTG
GAGAGC

SEQ ID NO:1945: (Length of Sequence = 362 Nucleotides)

TCAAATGTG AAATTNAGAA TTCTGCTATG ACAAGTGGAA AATTGAGAAA AGACGCAGAG CCACITTTTG TNATOGTGTA
GGTGACAAGG AGTCTCCAA GTATATCTG CTAATAGGAG TAGCTCTCAA AAGTTAATCT CAATAAGCC TCCTAAAGTC
TCTGGCAAAG AAAACTGCTG CAATCCCTTG TGCAATTCTC CAGACTAAGC TGTATGGGGG AAGCCTACCT TTTTTCAGCC
CGAAGTTCAG GAGACTGAGG ATGTAAGTGG GGACATGATC ATTGNTTCAA AGGTGATTGC TTAAGTATCT TAAAAATGTA
TAGAGCTAAT CTGAGTACCG CTTAAATTCA AGAGCCGTGG CT

SEQ ID NO:1946: (Length of Sequence = 408 Nucleotides)

AACCTCTNAC CCCCAGGTTT AAGCAGTCTT CCCACCTCAG CTCCTCCGGT AACTGTTCTT TGTAACCTCTC TCATCATCGA
GGCTATATAT TAATAGACAT GGTATTAGC CCACACGAAA CATTGAGAAT TAGAATTGGA TTAAGAAGAC GCGTTTGGC
ATCAGCTGA CTACTCTCA TCTCGTCTT CCGGAGGGT GATGCCAGCG TGGGACTCTT TGAAGGCCCT ATCAATCACA
GGTGGCTAA AATCAAAAGG TGGGTCAGTA GGTAGGGAG GNGGCGCGA AAGGAGATGC CAGCGGTGT TAAGAAGGAT
ATGGTCAGAA GAGCTCTTTG TCTCCATCCA CCGGCGCTCT GCTCAGCCCG TGTGTCTCG GTGAGTAATT CCGGAGCAGT
GCACGGCT

SEQ ID NO:1947: (Length of Sequence = 426 Nucleotides)

CCATTGACA CTGTTACTAT CTGCAACAGT TCTTCAGTA GAGGATGCAC TTCAAAGTGC ACTGCTTTAC TGTCTCACTG
GAATTCTAAA AATCTAAGCT TTATCTTTT AACATTAAGC TGTGTGGGAA TGTAGCAACC TCCTGGGTGG TGGGGTGGG
GGCATCTTCA ATTATTAGG TCTCACTGGA AAGTTTGAGA TCAGAGTTTG GTAGGTGGTG TAAGGGGACA ATGAGTAAGG
GAGAGAAAAT ACAGGACTGA CTTGGGGCAA AAAACGCTG ATAATAATTT GTGAAGCACA TTTTCAAACCT CATTTATCC
TTACAAGGAT CCTAAGAGGC GGGTATTATG TCCNGGTTAT ACCTGGAGGC TTAAATTGAA GGAACATCTN CAAGGGCACA
CAGTTTAATG AATGGCTGAG GTAGGA

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SEQ ID NO:1948: (Length of Sequence = 349 Nucleotides)

TTACAATCTG GCTGGAAACA GATAATTAGA ACATATCACG AGAAACAGAA CAGTTAAGTG CCAAGCTCTG GTGGAGGTTT
 TAAGTGCCAG AGGTCAGGAT ATATTTTAA GTGCTTCTGC TTCCAAACAT CACTCTTTCA AAACAAAACA CAAAGATCCC
 CAACCAGCAT TTCTGCCCC TGAGGCACCA GCAAGGTATA TAAACGGGCT TGCAAAGTTT GATATACGGT CTCCAGCCTG
 GCTTTCTTTA GTCTGGGCTC AAAAGCCAGA AACCTCTGGG GGCCAGAGAA GCGCTCTTTG TTTGCCAAAC AGCATTCTCG
 CACATCCTGT TCTACAGCAC CGTCAGTTT

SEQ ID NO:1949: (Length of Sequence = 378 Nucleotides)

TTCAATCCTG ATTTTATCCC AGCTGTGGG GATATTGATG CATTCTTAAA GGTCCACGT CCTGATGGAA AGCCTGACAA
 CCTTGGCCTA TTGGTATTGG ATGAACCTTC TACAAAGCAG TCAGACCCTA CCGTGCTCTC ACTCTGGTTA ACAGAGAATT
 CTAAGCAGCA CAACATCACA CAACATATGA AAGTAAAAAG CCTAGAAGAT GCAGAAAAGA ATCCCAAAGC CATTGACAG
 TGGATTGAGA GCATCTCTGA ATTACACCGT TCTAAGCCCC CTGCGACTGT GCACTACACC AGGGCCATGC CCGACATIGA
 CACGCTGATG CAGGAATGGT NCCCGGAGTT TGAAGAGCTT TTGGGCAAGG TAAGCCTG

SEQ ID NO:1950: (Length of Sequence = 357 Nucleotides)

TCACTAATTT TACGAATGAA AGAAAACAAT TCCATCCCTC TCACAAAAG GACATCTTTT AAGCTTTCTT CCCAATCTAA
 CCTCCATGGG ATCTCAGAAA TTCCAATTCT TATAACTCAA ATCCCCACAG TGGTGTAGAT GCATTAACTC CCGGGGACA
 GCAATCTGAG GCAGGCAGGT TCATTAAACA AACATGTTCT GTGCCCTCTG GCAGAGAGGG CAGCAGGACA TGCACTGCCC
 CTGAGCCAAG CTGTGGCATG GGCAAGGACA TCAAGTAGCT GACAAOGTTC TGTCATCTC AGCTGGGGCA GAGGGGCCAG
 TTCAGCCTTG AAACAGCAGT TNGGGAGTGT CTCAGCT

SEQ ID NO:1951: (Length of Sequence = 336 Nucleotides)

CIATCTCCCC AAATCTACGT TTCACATTT GTACGTATAT TTTTITAGCC CAAGCCACCT TTATGTCACT CCTGGAACAT
 AATAACTGCT TTCTCACTCA TCTCCTACAT TTNACCTCT TATAATACAG TCCACCTTGT ACOGAGCAAC AAGAGTTATC
 TTTCTGAAAT GCATATTAGA TCATGTACA TCTCTACTTG AAGCTCTCTA AAGATTTCTC ACTAAAAGCG AAGTCTAAAA
 TTTCCACCCA GACCTATAAG GNCCTTAAAT GATCTTACCT CTCIACCTAC CTCINCGATC TTACCTATCT TCAACCTGG
 TTCTATTTTC TATATC

SEQ ID NO:1952: (Length of Sequence = 413 Nucleotides)

CAGTATGTAA TTTAATCAGC AAATGCCCCA TTTCCATCTC TACCGGAAAG CTTTCAGACG CATTCCCAGA TCAGACAGAG
 GACTAGGGT AAGGCTGGGA ATGAACACC AGCTAGTATC CCACTGAGCT TTCCCAAACA CACATACACA GCAAGTCAGA
 CTAACAACG TCCAACGTAA GACTCACCTC AAATACTTAG ACCTAAGATT CAGTCCAGG CTCTTTTCTA TACACCAGGT
 AAGTAAGCAC TTGGCATTC TATCTCAGCC ATTCACTTCA CAGAATCTTT TGGGTGCCTA CTGTGTGCCC AATACTGTGC
 TTAGTGGTAC TTGCCCTCAG CAGGAAAAAA AATTAAAAGT GTTAAATGTT ATGAAGGAAC AGATTGGNAT AGGAATCACA
 AGGCATTGAG GTC

SEQ ID NO:1953: (Length of Sequence = 382 Nucleotides)

GTTTCACTCT TGTTGCCAG GCTAGAAATG AGTGGGATC TTGGTCACT GTAACCTCTG CCTCCGGGT TCAAGTGATT
 CTCTGCCTC AGCCTCCCTA GTAGCTGGGA CTATAGGTGC ATGCTGCCAC ACCCAGCTAA TTTTITGTIA TTTTITAGT
 AGACAGGGT TOGACATATT GGCCAGGCTG GTCTTGAACCT CCTGATCTCA AGTGATCTGC CCACCTAGGT CTCCCAAAGT
 GCTGGGATTG CTGGCCTGAG CCACCGCACC CTGCCTAGAA CATGCTTTIN AATAGTGTCT CTAACCATCA TGTTTAGGGC

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CTTAGTGCTT ACCTCTTAAA GAAGGGCTGC TGTGAGGAT TCCNTGAGAT AGTGTGAA AA

SEQ ID NO:1954: (Length of Sequence = 389 Nucleotides)

GGAAAAGCGG GACCCAAACA GTGTGCTGG GGAAATTTGT TCCTGTTCCC TTTGGAAGGC TGAGTGGGTG ATGCAGCACA
GGAACAAGGC TTGGACGTCA GAGGTCTCAT CTTCAGTGTG ACAAAGCATA AAGGACTTGG GGTGAGCGT GTGINTGGGC
TCAAGTGACC ATGCAAGTNC TGTACCTCC TTCTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTTCTT
CAAAACAATA ACAGAAACAC ATCAAGNTTN GCGTCACTGA AATTGAAGTT CTGAATTCIG CCGTCACCCC AGCAACAGTG
CCAGTTATGA TGAGACACTT GACCCAGCAC TTGGGTTGAT GTCCTTGGCT GTTACCGTGG CACCTAGGT

SEQ ID NO:1955: (Length of Sequence = 277 Nucleotides)

GCCTCTAACT CCACGGCTCA AGTAATCCTC CTGCCTCAGC CTCCTAAGTA GCTAGGACTA CAGGTGCACA CCACCACACC
CAGCTAATTT TTTTNCITTT TGATTTTGG TAGAGATAAG GTCCTACTAT GTTGCCAGG CTGGTCTGAA ACTCTGGCC
TCAAGTGATC TGTCTTAGCC TTCTGAGTAG CTAGAACTAG TTTAATGAC CNAAGAATT ATGTGTCAC CNGTGATTTT
ATGTGTTTG TTAAGACATT CAGAATTTAG AGAAATG

SEQ ID NO:1956: (Length of Sequence = 380 Nucleotides)

GTGTAATGTT CTGAGGGTGG CGAATGCAGG GGCGGTTCC TCCCGCTGTC GATCTGGAAC ATCITCTCGC CAACAAAGAG
CAGGGTGAAG ATGAGGGCAA GCTGGTAGAC AGCATGGCCC AGGATGTTCT TCATCATGGT CCTGGAGATG AGCGGCTTGT
TGCGGCCGTA CGGTTTCTC AGCAGCAGGG TCTCCGTGGG CGGCTCAGTG GCCAGTGCCA GCNAGGCAA CGTGTCATG
ATGAGGTTCA CCCAGAGCAT CTGCACGGCC TTCAGAGGGG AGTCCTGGT GATGCAGGCG CCTNTAAAGC CACAATCACG
GCCACCACGT TGACGGTGAA GCTGGAACIT CAAGAATTTN GAGATGCTGT CATAGACGTT

SEQ ID NO:1957: (Length of Sequence = 328 Nucleotides)

TGTGATGTTT CTTTTTAGC CTGTTGATGT GGTAATTGT ACTGATTGAT ATTTGAATAT TAACTGGCT TTGCATCCCT
AGAATATACC TCACCAGTC ACTGTGACT AGGTGGTGC AAAAGTGCTT GCCATTTTGG ACCATGAATT TTGAATCATT
AAAAGTAGGC TCAACACAT CTGTATTAAT CAAAGTAAGA ACCATTACAA TCAACACAAT TTTGCCAACA AGAAATAAGT
TTGTTTACTC CTGTAGCATA AAAATCCGTG CTTTGAGATT CGAGGAACIT TTGGNAAGCA CTTTCTGCAT CCTGCTGTT
GTGGAAGC

SEQ ID NO:1958: (Length of Sequence = 254 Nucleotides)

CTAGAAAGTA TCTTCTCTTT ATTTAAGTTA AACAAITTTT AAGGATGGTT TCCATCTATA AAATGGACAA AGTACAAGCT
CTGTACAGCA GTTCTTTTAA AAAATCAACT GGAAAAAAA ATTACCAAAC TATATTTTGA ATTTGCAAAA CATACTCACA
GATACCATCA TCTGAGCTTT TATGAGGACA TAAGAAAGGN CCACCACAGA GAAGACAAC TAACTCGGCA CGCTTTGCTC
GAAGGGCTCT TAGG

SEQ ID NO:1959: (Length of Sequence = 259 Nucleotides)

GTAATACGAG AAAAATCACA ACAGAGTAAT AAAGATATAA AACTTTTACA ATTAACACTC ATCAGTGTGA TAACTAAGC
CCATGTAAAA GTAAAAATCT CTCACAGTTA ACAAACGCTT TTACTTTTAC TAAGAAGGAA CTGAAATTAA AGTCCTTAGT
CACTTTGGAG GTGGCTGCAA AAGCTCACA CATAGTTGAT CCTTAAATA ATTATGAATG GCAACCAGTG CTGCCTTTCT
GTACTCAACC ATGCAACTG

SEQ ID NO:1960: (Length of Sequence = 329 Nucleotides)

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GA CTACAGGT GTGCCCCACG ATGCCTGGCT AATTTTAAAG GTTTTGTAG AGATGGGGTC TTCTATCTT GCACAGACTG
 GTGTGGAATT CCTAGCTCAA GCAATTTTCC TGTCTCAGCC TCACAAAGTG CTGGTATTAC CCGTGTGAGC CACCGTGCTC
 AGCCCACTCA TGTATTTCTA ATTATTGTAT TTGTGAAC TA ATCTATGAAC AACAAAAACA AACAAACAAA CAAAAAGGGT
 GGCATTTCTG GGCCACCAGG GAAGGTGGGA TTGGGGTTC AGCTATTTTC AAATTATATT AAAAGCAGGA TCCAGTTAG
 AGCGCTATC

SEQ ID NO:1961: (Length of Sequence = 282 Nucleotides)

ATCTCCAC CTCAGCTTCC CAAAGTGGTG AGATTACAGG NTGAGCCAT CGCACC CGG CCAATTATTC TTTCTAAACC
 ATTTCTCTT CTGTGTTTCA GCCTTTAAAA ATAAATTA AAAAAAAAAA AAAAAAATC CTTAAATTT CTCAGGTGTT
 TTCCATATCA TTTTATTATC AAGAATATGG CTAATCAGAA GTCACAGCCA GCCCCGAAC TACAACTACA AAACATGCAT
 ATTATAGGCT AACTGAGGG ATTTCTGAGG TTAGCAGATG CA

SEQ ID NO:1962: (Length of Sequence = 328 Nucleotides)

TGCTGGTGTG CTTGCTGTCA TCCTCAGGAG GCCAAATCAG TCCCAGCCTC TCCCACCATC TTCCCTGCAG CGATTTCTTC
 GAGCTCGAAA CATCTCTGGC GTGTGTTCTG CTGACCACTC TGGTGCTTC CATAACAAAT ATTACCAGAG TATTTACGAC
 ACTGCTGAGA ACATTAATGT GAGCTATCCC GAATGGCTGA GCCCTGAAGA GGACCTGAAC TTGTAAACAG ACAC TGCCAA
 GGCCCTGGCA GATGTGGCCA CGGTGCTGGG ACGTGCTCTG TATGAGCTTG CAGGAGGAAC CAACTTCAGC GACACAGTTC
 AGGCTGAT

SEQ ID NO:1963: (Length of Sequence = 277 Nucleotides)

CCAAGAGACA CCCCCGCAC TCCTGTGCCC GAGCTGTCTC ATCTGTGATT CACAGTCTGC TCTTTCTGGC TGCTTGTCGT
 GAGAAGTGAT TTNAACCCC GAGGTTAGAA AGGGAGCTAT TTTTGAGCTG CTTTGTGTTA AAAGGCAAAT TTTCTGCTGG
 GGACTGGCTT TACCCCGTCT ACCTAAATCA TTTCTTACTG CCTCTGTAA CAGTCGCCTT TTGTGTTCTG CTGGNAITTG
 TTTGAACACA GTCCACAGGT TCAGTGGITN CATCTCT

SEQ ID NO:1964: (Length of Sequence = 230 Nucleotides)

CAATGCAACC TTTTAATTCC AAGCAGAGTC CCCCTCCCC AGCATGGTCA CACACACAGT GGAAAGGGAT GTCAGGGTCT
 GGGCAGGAGC AATACCCAGA CTGGGCAAA AATATAGATA TCATTATATA CACACGTGGA CTGGAAAGAA GTCAAGCTGG
 GGGTGTAAGG TAGGGCAGGG GCAGGTGAGG AAAGCAGCTG GGGGGGCCCC AATAAATTAC ATTCTTGAGA

SEQ ID NO:1965: (Length of Sequence = 299 Nucleotides)

CGCCGTGGAT CCCGAGAAGG CACAGCAGAT GCGCTTCCAG GTGCATACCC ACCTTCAAGT GATTGAGGAG AGGGTGAATC
 AGAGCCTGGG CTTGCTTGAC CAGAACCCCC ACCTGGCTCA GGAGCTGGG CCCCAAATCC AGGAACTCCT CCACTCTGAA
 CACCTGGGTC CCAGTGAATT GGAAGCCCCCT GCCCCGGGG GCAGCAGCGA GGACAAGGGT GGGCTGCAGC CTCCAGATTG
 CAAGGATGCA GACACCCCCA TGACCTTCC AAAAGGGTCC ACAGAACAAG ATGCTNCAT

SEQ ID NO:1966: (Length of Sequence = 320 Nucleotides)

GTCCCTGCAC ATGCGTCTGG CAAGACGGGT CAGCTTTGTG GTCTGAAGCA GGAAAGTTTG TCTGTNCTTA GCCAGTAGCT
 TGGCCCTGTT GGCGCTGGTT GTGTAAGGAG AGAGACTTTG AGCTTCAGGT CTGGATAAAT NAOCCTTGA GTGTGGCTCC
 GTGGTGCCCC GAGTGGCCCC CTCAAGCTGA GTTGGGGTCT TCAGTCCCC ATACTTCTTC CAGTAGATCC AACAGGAAGC
 ACAGAGGGG CACTGCATGT TAGGTGGGCC CCAGGCATAC CACTGAGCAG ACTGTGTGGT GTGGCAACTC TCACAAGTCA

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SEQ ID NO:1967: (Length of Sequence = 296 Nucleotides)

GCTCTGCTGG CGTGCAGAA GCTCATGGTG CACAACCTGGG AATACCTTGG CAAGCAGCTC CAGTCCGAGC AGCCCCAGAC
CGCTGCCGCC CGAAGCTAAG CCTGCCTCTG GCCTTCCCCT CGCCTCAAT GCAGAACCAG TAGTGGGAGC ACTGTGTTTA
GAGTTAAGAG TGAACACTGT TTGATTTTAC TTGGAATTC CTCTGTTATA TAGCTTTTCC CAATGCTAAT TTCCAAACAA
CAACAACAAA ATAACATGTT TGCCTGTAA GTTGATATAA AGTAGGIGAT TCTGTA

SEQ ID NO:1968: (Length of Sequence = 311 Nucleotides)

ACCCCTTCA CTCCCTCCA CCAGCTCTGC AGCCAGCCTA TGGCAATTAT ATTTAAGAG GTGTCCAG GACTTTTGGG
ACCTACTAAA ACAATGATGG TTATTTTAGA TGIGATGATT TATATTTATG TAGAGATATT TCTGGACCAC TCAAGCTCTT
CGATACAAA ATCAGGAGCA TCTTGGGATT TATTAAATTA TGTAAGAAGA TAGCACAGAT ATCGGGATAT TATGTGTGA
AAATGCTGCT TTTACTTTGA TGIGATCTCA TTGATGTACA CAACCAAGTT CCAATAAAGT GCTAGAATGT G

SEQ ID NO:1969: (Length of Sequence = 266 Nucleotides)

CAATAATAAA AAGGATTATA TTCCTGATAC ATGCAATATG GGTGAACCGT AAAAAATATCA TGCTGAGCAA GAGAAGCCAA
ACACAAGAGA ACATGTTGTT ATGATTTTAC GTACATGAAA CTTTAGTAAA GACAAGTCTA ATCCATAGTG ACAGAAAGCA
AATCAGTAAC TGCTGACAGG GGCAAATGAG GNGATGATCT CAAGGNNACC TTCTGGGGTA AGACGCTGTT CTGTATCTCG
ATCGNATTGG TGGTCACACA AGTGAA

SEQ ID NO:1970: (Length of Sequence = 317 Nucleotides)

CTCGGGAGGC TGAGGCAGAA GAATGGGTTG AGGCCAGGAG GCGGAGGTTG CAGTGAGCCA AGATTGCGCC ATTGTACTCC
AGCCTGGGCC ACAAGATTGA AACTTCATCT CGGGGAAAAA AAAAATGAGC TAAATACAAG AGATGGTAAT GCAGGAAATG
AGAGAGAAAG AAGCTATAGA ATGCACCATC AGTCTTTGCT GAGAGGAGAA GCTAGGACAC TTATGCGCAT GTNCTGTCT
GCCTTCCTTC CGTCCCGCG GATGGTTGGA GCAGGTCTTT GTTTGCTGCA GAGCATGCCA TGTATCCTC CTGTCT

SEQ ID NO:1971: (Length of Sequence = 263 Nucleotides)

GTGCATACTG CTGAGGCGGC TACGCTGGCA GGGTAAGCAA AAGAAGCACC CCAGCCTAAG TTTACAGAGA ACCAGGACAT
CATTTTGAAT ATAACITAGT TCTAATAGTC AAATGGCCAC TCAAGGTGAC AAATAGGAAC TTCAGTGGTC ACCCCTCGGA
AGCAAGCTTT CAATGTCCCC CACCTGTAGA AGGCTGAAAA ACATCCTCCA AAGATAACAG GTTCCAATCA CTGGAACCTG
TATTACTTAT TACCAITAAA TAT

SEQ ID NO:1972: (Length of Sequence = 295 Nucleotides)

GACAAAGAAA GCAGAATAAT TTTACCTGAG AAGAAACCAG GAGGCTTCTT CTCTCTCTT TTTTTTTTTT
TTTTTGACTA TACAGAAGAA AACTATCAGA GTTAGGTTAG AGAGTTGGGT TTGGGGTCAG GTTGTAGCAT GTGTTATATT
ATGGGTAAAT TTGTGTCCTC CCCAAAATTA ATATGTTGAA GTCTTAATC CTGTACCTC AGAATGTGAC CNCATGGGGA
AATAAGGTCA TTGCAATATA ATTAGGTAAA ATAAGGTCAT ACTAGAAGAG GGTAG

SEQ ID NO:1973: (Length of Sequence = 243 Nucleotides)

AGACCGCAGT CATCTCAGC ACTACACGCA GGCCATNINC AAGCTGACCG CAATGCTCAT TAGCAGTAAA GATTGTINACC
CGCAGCTCCT TCATCATCTG TNCCTGGGTC CCCTCCGAT GTTCAATGAG CATGGCATGG AGACGGCCCT GGCCTGCTGG
GAGTGGCTGC TGGCTGGCAA GGATGGAGTG GAAGTGCCGT TNATGCGGA GATGGCAGGG GCCTGGCACA TGACGGTGGN
GCA

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SEQ ID NO:1974: (Length of Sequence = 304 Nucleotides)

GGATGAGATG ATCGACGTCA TCGGGGTGAC CAAGGGCAAA GGCTACAAAG GGGTCACCAG TCGTTGGCAC ACCAAGAAGC
 TGCCCCGCAA GACCCACCGA GGCTGCGCA AGGTGGCCTG TATTGGGGCA TGGCATCCTG CTCGTGTAGC CTTCTCTGTG
 GCACGCGCTG GGCAGAAAGG CTACCATCAC CGCACTGAGA TCAACAAGAA GATTTATAAG ATTGGCCAGG GCTACCTTAT
 CAAGGACGGC AAGCTGATCA AGAACAATGC CTCCACTGAC TATGACCTAT CTGACAAGAG CATC

SEQ ID NO:1975: (Length of Sequence = 233 Nucleotides)

CCTTCTCCAT CACCCCTTGA CCTCTCTGA GGGTCTCTC AAGGCACATT TATTTTCTCT GCTGCAACCT ACCAGATCTG
 ACATCCACCT CCCCCAGCAC CCATGGGCCA AGGAGGCCTG GGGCAGCCAA GGGGAGTTCC AGGACCAAGC AAGCAAGAAA
 CCGTCTTTTG AACACATGGT TAAGCTTCTT CCAGCATGGC CCTAATTCCT CTACCTGCCT AAGCCAGGGG AGT

SEQ ID NO:1976: (Length of Sequence = 162 Nucleotides)

AAGTGTACA AGCCCCAGAA TGCTGCCCGG CCTGCCCTGC TGGGCGGACT GTCTGTGTGT CTGINTCTCT GCGTTCCAC
 CTCCAAGCCT ATACCAGCTG TGTACAGGC CATCTCTCTG CCTCTGTGTG CCCCTCACTC ACCAAACAG TGTATTATA
 GC

SEQ ID NO:1977: (Length of Sequence = 270 Nucleotides)

GGCTGAATTA AGAGCATCCA GAAAGCCCAG GCCCTCCATA GGCTGTGGCG GGATGATCTT CACTTTGATC TCTTTGGTGG
 CATTAGGTGT TGTGTGAGT GGCTGTATT TCTTCTCTGC AGGGGGAGTG GCATCTCCTG GAGCAGCTAC GTTGCTCTGA
 CGTTTGAGGG GGATGGGTTT AAGGTTGTAC TTGTGAGAAA CCACCACTGT GCTGGCATTG TTCTTCACAG GCACCAAGGA
 TGGTGTCTCC AGCTCTAGTC CAGTGGAAACG

SEQ ID NO:1978: (Length of Sequence = 167 Nucleotides)

TTGCAGGAGT TGCTGATATT TATTCAAACG TCATCCATAC AATAAAGAAC TCTNCTTTTA AAATTCCATT TACATCAGCA
 GTTAAAAAAA AGTGACAGTG GATGAAACAT GANGCTGTAA AGTGCCTTTA TGGGGAATNC AGCCACGCCT GCCTCCACTG
 TGCTGGG

SEQ ID NO:1979: (Length of Sequence = 346 Nucleotides)

CATCATAGCA ACAAAGGGCT ATGTACTATA CTCAGGAAAA CCATTATTTT GCACTGGAGG CAACTGTTCT TGAGAGAGGA
 AAAGTAAATT GTCCAAGATG TAACATCTTA TAAATAGCAA AGCAAGGATG AAAATTATTA TATTINACTA AATCAGTATG
 AGAATCCTGA TTCTTCATTA TTATATCCCC AACACTCTAT CAGTTTGTG AACAAATCAA CAAATAAGCT TGAATAAAGG
 NTCCACATCT CAATTCTCCT CCACCATCT ATATTGCCCT TCATCCCTAC ATTAAAAATG TTAATTTCTGC TTTTTTCTT
 TAACAATTTA TCCCTAAAGT AACTAG

SEQ ID NO:1980: (Length of Sequence = 174 Nucleotides)

CACAACTGA CAGAGGAGAC AGGAGGAATT TAATATTACA TGCTATAATG ATATTTATCT CACAGTTTAT ATTTCATTCA
 TTTATATTAT TTTTTTAAAA GGTTCCTTA TCAGCTACTA AACATCTCAG CAATTTGGTG TGCATAGCTC TAGATTAAGC
 AACAAAGAAT TGTA

SEQ ID NO:1981: (Length of Sequence = 276 Nucleotides)

TGGNTCACTC ATAAGTTTTC AGTGGTTAAT TACTACAGTT TAAGAAGACG TGTGATTTAT TTTTAGATCT GACCCAGCAG
 ATCATACCTN TNCNTTGAAT TACATGGTCT TCTTTTGGCT TCTAAGATGT CACACTCCTG TCTTAGTGGC CACTGCTCCT

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CAAGCCCCCT TTGCTAGCTC TTCCTCATCT GTCCAGCCCT AACCTGACCG TGCTATGTAA GTCTTCTCCG TTTTCACCCC
CTNCCNGGGT GACCGTTATA CTNCCAAACC TACAGG

SEQ ID NO:1982: (Length of Sequence = 288 Nucleotides)

GCTGCAGAGA GGTGTINTCC AGGAGCAGGC TTTCCCGCTC GGGATCCAGG TCATCCCCCA CCAGAGAAAT TTCACAGCCA
TCCAGGTTGT GCACAATCTC ATCCGACATG CGTGTINTCTG TCACGTGGCC CTGCCAACTC TCATCCTTTT TGGCCTCCAC
CTGGTGAGAA ATGGAGCAGG TGATTTGAAG ATCAGGGAAC AAAGGGAAGC CGTTGGTTCC CTCAAAGTCC ACAGCTNGGC
GGGCAAAATG AGCAGTGCCA CTCAGCAGGA TCTGGGGGGC GTCAGGCT

SEQ ID NO:1983: (Length of Sequence = 273 Nucleotides)

CACAAGCCAC TTTCAGCCTC CAGTGGGAAG GCTCCAGCCA CACGCCGATA TTTCGTCTCTG CTTCCCGTCA TCTCATATCT
AAAAGTCATG GCTTAAGTTA GGCAATAAAA CCTGTGGCTT TAGGCATCTT TAGTAAAAAA GCTGAACAAA TCCCAAATTT
ATTCCCATT TCTTGAGAAA TAACTTCAT AAAACAACAG ACAGCTGTCA TGATTACTGA GTTTTGGCTG ATGGCGAAAT
AATTTTATG TAAGTATACT GAATAACAT ACA

SEQ ID NO:1984: (Length of Sequence = 221 Nucleotides)

GAAGAGGCTG CTCGTGCCTG GGACACCCCC ACTGCTCTCA AGGAGCTGGC ATCTCAGTGG CCTCTNAGCC CAGCCTGAGC
CCTGTGGGAG TNCGGGGGCA GTGACTGGAA TGTTCTGTCTG GGCAGGCTGC AGCAGCCGAG GTGGCCCCAG GGCAGAGGAG
TGCAGCGCAN CTCATGGGTG CCTATGCCA CCCCTGGTGC TCACTGGGCT GCTGATGCG T

SEQ ID NO:1985: (Length of Sequence = 197 Nucleotides)

TTGCTACCAT GAGGGAAGTG CTCGTIGCTT GGCTACAGC AAGTATACA GCCTGCGAGG CACAGTCCCC AAAAGTCTAG
CTGCAATTCT ATTGGTGGTT TTCCCCAAC AGCAATAACA AGATGTTACC TGGAAGCACA CCAGAGCCAA TCATGACTCA
GGCCTGTCTA GATGTTTAGA TGTCTGAAA TATATTT

SEQ ID NO:1986: (Length of Sequence = 268 Nucleotides)

CACTTGGACA TTCTCTTTA TTGTTCACAT TCCAACCCAG CACAGTCACA TGCACACAGG GAGATCAGAA ACCTTTNGGC
CACAGCCCCA GGAGCCCGGC GGGGGGGAGG GCGGGACCGA CAGGGGCGGG GCGGGGCGGT GGAAGACTCC TCCTACCGAG
CCTCCAGGC GNTCGCGTT TGCATAACA AGAGAGCTGG AGAGGNTGCC CTCAACAGTG CGCTGGGGA AGGGGAGGGA
ACGTGACAGG CAGGTINTGG ATAGGGAC

SEQ ID NO:1987: (Length of Sequence = 282 Nucleotides)

GTCTCACTG TAAACAAATG AGGATGGAGG AACTGAGAG GNTCAAATAT GAAAGGCAGT ATGGGGAGTT AGAGCCACTC
GTCTACTCT GTAAAGAGCA TGACTACTCA CAGTCTTTCT AGCGGGTAGT CACTCTTTCA TTTAACAAAT ACTAGTCCC
TGCAATGATC TAGGATAATA ACTCAACAGT GTATATCAAG AGCCTTTAAA AAGTTATACC TGGCCGGGCG CAGTGGCTCA
TGTATGTAAC CCTAGCACTT TGGGAGGCCA AGGCAGGCAG AT

SEQ ID NO:1988: (Length of Sequence = 226 Nucleotides)

GTGAGGGGGT TCGGTCTCTC AGGAAGTTAG GCCATAATTT CTGCAGGTTT AGTGATTAAC TTGGATCCAT CCCATGCTGT
CTTGAAGTGT TCAGGAATGG GAAATTCTCT ATAATACCA TCCTGAGGGA TAAGTATGTT CATTTAGAT GACTTGGCGC
TCACGNTCTC ACAGTCTAAT GCATCTTCA TGAAGTATAT GTGGCAACCT TCTGTCTTAT TAATGG

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SEQ ID NO:1989: (Length of Sequence = 193 Nucleotides)

CTCCCTGTAG GTCATGTCCT TGAGAGTTAA AAGATGGGTT GAGTAGGCAG AGGTCTCAGG CACCGGGGAC AGAAGACAAG
 GACATTCAGC ACGGGCAGCC ATGCTCTTCC CAGCACCCAG AAAAGGCCCA GGGCCCGGAC TCCTGGGTGT GGTTCATGAGA
 AGCGCCTCCG ATTACGCCTC TTCTCTTCTT GTG

SEQ ID NO:1990: (Length of Sequence = 223 Nucleotides)

CTGCTTCATT TACCACCACC AGCCGATGGA CCAGTTTATT GGATTCACCT ATGATACCAG GACTTTTCCA TTCAATTCAA
 TTCAACAAAC TTTTAGAGAT CGCCCTATT CCAAGCTCAT CCAGGTTCTG CTTTCATGAAG GCAGGCTTTG GCATATCAGA
 CATAAAAGC TGGAGGAACT TGAGGATTCT TTTGTGGGTA AGTATATAAA GTGCATTCCC ACT

SEQ ID NO:1991: (Length of Sequence = 385 Nucleotides)

GCAGAGAAAG TGCCAGGCAT CAACCCAGT TCGTGTTC TGCAGCTCTA CCATTCCTCC TTCTTTGGCG ACGAGTCAAA
 CAAGCCAATC CTGCTGCCCA ATGAGTCACA GTCCTTTGAG CGGTGGTGC AGCTCCTCGA CCAGATCCCA TCATACGACA
 CCCACAAGAT CGCCGTCCTG TATGTTGGAG AAGGCCAGAG CAACAGCGAG CTCGCCATCC TGTCCAATGA GCATGGCTCC
 TACAGGTACA CGGAGTTCCT GACGGGCCTG GGCCGGCTCA TCGAGCTGAA GGACTNCCAG CCGACAAGG TGTACCTGGG
 AGGCCTTGAC GTNTGNGTT AGGACGGCCA GTTCAACTAC TNCINGCAG ATGACATCAT GGAAG

SEQ ID NO:1992: (Length of Sequence = 312 Nucleotides)

GGCTTACAGG ACAGAAAGGT CCCTTCTCAC AGTTTGGGAG GTCCGAAGTC TGAAGTGAAG CTGTCAGCAG GGCCACACCC
 CCTCTGGATG CTCCAGGGGA GGGTCCTTTG CCTCTTCCAG TTCTGGTGGC TCCAGGCATT CCTTGCTTTA TGGTGGCATC
 ATTATCTCT GCTCCGTCCT CACGTGGCCT TCTCTGTGTT GTCAAATCTC CTTCCTGTT CTCTGTAAA AACACTCGTC
 ATTGGGATTT AGGNGCCACC CCAATCTAGA TGGTCTCATC TTGAGCCTTT ACTTTAGTTA CCTCTGCAAA GA

SEQ ID NO:1993: (Length of Sequence = 429 Nucleotides)

CTGTTTTTAC TCGACGAGGA GAAGACCTTT TCATGTGTAT GGACATACAG CTCGTGAAG CACTGTGTGG CTTCAGAAG
 CCAATATCTA CTCTTGACAA CCGAACCATC GTCATCACCT CTCATCCAGG TCAGATGTG AAGCATGGAG ATATCAAGTG
 TGTACTAAAT GAAGGCATGC CAATTATCG TAGACCATAT GAAAAGGGTC GCCTAATCAT CGAATTTAAG GTAAACTTTC
 CTGAGAAATG CTTTCTCTCT CTTGATAAAC TGTCTTINCT GGAAAACTC CTACCCGAGA GGAAGGAAGG GAAGAGACTN
 ATGAGATGGA CCAAGTAGAA CTGGTGGGAC TTTNGATCCC AATCAGGAAA GACGGCGNCA CTNCAATGGG GGAAGCATAT
 GAGGGATGAT GGACCATCAT CCCAGAGGT

SEQ ID NO:1994: (Length of Sequence = 377 Nucleotides)

TGGGGTGGCC AAACCAAGTG CCCCTGTCCT GTGTCAGCCA GCTGTGGCAA TTTCACCCCT ATTCCCTTGA GAGGCCAGCT
 GCCTGCTGGA AGGAGTCAGA AGTCGGTGA TGTATTGAG GCCTTGGAGG CCCAGTNG GCGGGAGAGA AATCCACACC
 TGTGCCGGA GTTCTCCTTC CTTGACCCTC TGAACCGCG CTTAAATGC TGTCCCGCT GGAACAGGGA GGCCACATCC
 AGCAGTGGT CCTCAATGTG CTGCCCCAGC CTGTGGGAAT CCGTTTTTGT GCTTGATTTT TTGCTGGAGA TGTGGAAGGT
 GATCATGCCA TCCCCATGA AGATATAAGA AACANCATAA CCATGGTCAT CAGCAGG

SEQ ID NO:1995: (Length of Sequence = 341 Nucleotides)

GGACCTATAT GGCCATGCTC TGGCTCTACC CTGGGAAGC CTGATCCCGG TGTGTGGCCC AGCTTGTTC GGCCCTGGGA
 TGCTGCATCT CCAGGCAACT ATGCATTTT CCGGGGAGAG AACCAGTATG AGAAGTGGGG GCAGGGCACA CATTTCATCTT
 TGTACCTGCC TCTTTGGTTT GGACCTGGCC AGTCGGGTCA CTGCTCCAC GTCTGAGGCC CCGCCAGCTG GCGTCTGTG

CTCGCCAGCC TCAGGCTGCT GCGCTCTCTC GGCTTTTACG GACCTCTGAG GCCGAAACCC CACCTCGAAG TTTCCCCGTG
ACAGTGCGTC CGAGTCCACA T

SEQ ID NO:1996: (Length of Sequence = 316 Nucleotides)

GCATATGGTT GGTGAACAGT TTTGCAGCCC TAGGCTCCTG TACTGTGCGT GCACCGCCGC CCGGGCAGCC GCTGGCTCCA
GCTCACGAAA CAGCCCCGGG CGCCGCGCCG CTC TGAGTCC AGCCTCCTAC TGAGAACAGT CCTCCCTTG TCGGGTTCG
ACGGCTAGCC GCAGGTTCCG CCACGTCAAA TCCATTTTNT AAAAAAGCAG GGAGCAGAGC TCTCTCTTCG CCGCCGACGC
AGAAAGGAGC TNGGGAGGAA AAAGCTGCTG CCTTTTTCGC TGGAGATTTC TGGGCAAGGC TTCTCATTTT CCCAGG

SEQ ID NO:1997: (Length of Sequence = 320 Nucleotides)

GCAGGTTTAT GTTTTATTTT ATGTATTTTA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTCAC AATATACTTG
CAGAACTGTG CCTGGNGCAT CATGGGAGCA GAGAACCTGT CCAGTGAATA GTTGTGAAG AAAGNGTAA AATCTCCCC
AAACCCTAAA GGCATCCTTT TCGTAGTGTG TGTCCCATAG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCCA
AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTTATTAAG GTGCACANCC ATGTCTGAGC CCCAGCTCTC TCCGNCCTCT

SEQ ID NO:1998: (Length of Sequence = 395 Nucleotides)

TTTGATGCTA TGGCGCTGGA CCCAGGGCCC TCCCAGGCCA TCTCTGTTCC TCTGGGGTGG TCCAGTTCTA GAGTGGGAGA
AAGGGAGTCA GGCGCATTGG GAATCGTGGT TCCAGTCTGG TTGCAGAATC TGCACATTTC CCAAGAAAT TTCCCTGTTT
GGAAAGTTTG CCCAGCTTT CCGGGGCACA CCACCTTTTG TCCCAAGTGT CTGCGGTTCG ACCAATCTGC CTGCCACACA
TTGACCAAGC CAGACCCGGT TCACCCAGCT CGAGGATCCC AGGTGAAGA GTGGCCCTT GAGGCCCTGG AAAGACCAAT
CACTGGACTT CTCCCTTGA GAGTCAGAG TCANCCGTGA TTCTGCCTGC AACTTATCAT TGATCTGCAG TGATT

SEQ ID NO:1999: (Length of Sequence = 337 Nucleotides)

GAAAGTATTT GTGTGATTGA GTCACACGCT GAATCAATCT TCATATAATG CCATTTTTCG TTAAAGAAT GCCAGACTTG
GGCATTAGGC TGACATTTTC TTGAAAACAG TGAGGCTTTG CTTTAGGGAA AATAGTGGTA GTATTTATGG TCGATGATAA
AGTTCTAGA TTPTAAGCAA AAATTTTAGA AAGCTTGTAT CAGCTGCTGT AAGTATATAA TGAAATCTGT CATTATTGA
TTATCTGCAT AACTGAGTCA GTATTTCCAA ATGATCAATG CATAGTATTA TAAAATCAT ACATGGGTAA GAAATCTTTA
CAAAGTGTCA GCTAGAC

SEQ ID NO:2000: (Length of Sequence = 329 Nucleotides)

ATGTAGCCCC CTGCTGCAA GGTGCCATCT TTTTNCCTGCT GCTCACACAG CAGCGTGCTC AGGGCCTGCC TGCATGGCAG
NNTCATCATG GGGAGCCCA CAGCCACTGA CATCATGAAG CCCACACGGA GCATCTCGT CACCAGGTG GAGGGAAAGT
GCATGAGCAC GTTTGCCGGC CGTGGCCTCG GTGAAGCTGA CGTAGCCGAA AAACCCACC ATGACGTAGG AAGGTGGTGA
CCACATTAAG GGAGGAAGCA AATATGGAGC TCATGGTTTT CACTTGACGG GCTCATCCAG GCTGTCTAG GTGGGCAGCA
CCTGGGACT

SEQ ID NO:2001: (Length of Sequence = 308 Nucleotides)

AAGTCTGGGG TTTGGTAGGC TCCCAGGATT TCCTCAGCA GGCATTTGTG CTGCCGAGG GCGTCTGGG TGCCCCGAG
GTCNTCTGG ATGCTCTGTA GCCTGCGGTG GAACGACTCC CTCACTGACT GTGTGGCAA GCTGAGCTCT GCCCTGACCC
ATGTGGCATT GGCCAGGATG GGGGCCANGC CCGTGGGAT GCTTTGCTGC CCGINTCTG AGGCACCGAC TGCTCTCTC
CCCAGTGTCC CCAAGTGCTT CCTCAGAGAC TCAACCTGGN TCCAGAACTC ACCATCCACT AGGACCTT

SEQ ID NO:2002: (Length of Sequence = 242 Nucleotides)

AGCCAGGCCC TGGGCCCAAG CCCCTTGTC CTTCTCCACT GCCCTCTTT CCAGACAGTA AAGGCCATGG TCAGTGTGTT
TTTCTCTTGT AAACAAACCC CAGCTTGTTT AACAGAAATG CTAATAACCT ACTGGGAAAG ATGGAGGTCT AAATTACCTC
CAGGGTTTTT CTGGGGGTTT ATCACCAGTG TGGGTCCCTT CTGATACCAC CAGGTTCACT CCAGGCAGAG TGGGGCGGAA
GG

SEQ ID NO:2003: (Length of Sequence = 328 Nucleotides)

ATATTCTCAC TTATAAGTGG GAGCTAAATN ATGGGAACAC ATGGACGCAT AGAAGGGNAC ACTTTTACAC TNCTGGTGGG
NGTGTAAACT AATACAACCA CTGTGAAAAA CAGTGTGGCG NTTCTGTAAA GAACTAAAAG TAGATCTCCC GNTTGATCCA
GCAATCCAC TACTGGGTAT CTACCCNNAA GAAAATAAGT CATTATACAA AAAAGATACT TGCACACAG TTTATAGCAG
CACAAATTTGC AATTGCAAAA AATATGGGGC CAACCCAAAT GCCCATCAAT CAATGAGTGG ATAAAGGAAA TGTGAGATAT
ATATATAT

SEQ ID NO:2004: (Length of Sequence = 211 Nucleotides)

AGCCTTTTTA TTATGINTT TTTTTTTTTT TAANCGAAGG TCCCTTACTG GTCCTGCTTC CATGAGTAGC CGTGACCAGG
GGAAAAGGGA GAGGAACCAG CCGGCACAGG GAGGGGTCTAT CTCCACAACA TTCCATTTAT ACACAGAACT AAACAGACAA
GCACAGNGTC ACTATTGCGG TTAGAAGTTG GCAGCATGGG AAGGGGGAGG A

SEQ ID NO:2005: (Length of Sequence = 241 Nucleotides)

CCGGGACACC GTGGGAAGG GGTGCAGGTG GGGTGATGGC CAGAGGAATG ATGGGCTTTT NTTCTGAGGG GTGTCCGAGA
GGCTGGTGTA TGCATGCTC ACGGACCCCA TGTGATCTT TTCTCCCTTT CTCTCTCTCT TTTCTCTCTC ACATCTCCCC
CATAGCACCC TGCCCTCATG GGACCTGCCC TCCCTCAGCC GTCAGCCATC AGCCATGGCC CTCCAGTGC CTCTAGCCC
C

SEQ ID NO:2006: (Length of Sequence = 266 Nucleotides)

TTCCCCCTAA CCTGTGAGT GGGCCTTTTA AGTAGTAAGT AGTATACACC TAGATATGGA TAGATAGCTA GGTGACCAAA
CCTAATGGAT TAAGGCCATC CTGCCTAGG TCACTTACTA AAGATCAGGT CATATGTCAT ATCGTTCCTG TGCTTTTITAG
AAGGTATTTG GGAATGGGTT CCAGATTTTT TTAAACACA TATTAAAGAT TATTTATATT ATGCTTTGTT TCGAAAGGT
TTTAAGGTGG ATTAAATAT AAGATT

SEQ ID NO:2007: (Length of Sequence = 419 Nucleotides)

AGAAAGAGGC TTCCTTCTGC GGAGGCAGGT GGAGCACAGG GAGGGCTCCT GGGAGGCACA GGAGTGGGGT GGGGGCCAGG
AAGGGGGAGG TGGACAGAGC GACTTGGATA AGGCTGGGCC GGGCCACGC CCACCTCAAG AGGGGGGCG CCTCCTCAGG
AGGNATCAAG GTGCAATCCA GTCTTCCTTT CTCTCCCTGA AGACCTGAGT TCCAGCCTTC ACAGAGCGTC ATGCGCATTC
TTCTTTCTGG ATGCTAACCC CAAATCCGAC ACTCAATGGT GCACCTCAGG TACCTGCCAA GGNTCTNTGG GCCCAGATGG
AAGGTGCAGG GTCTGGGTCC CTGGATGACG AGGTGAGGGG CAGATGGGTG ACCAGGGAAG GGCATGACCC AGAGCTNCCG
GGACTCATGG AGGATTNGG

SEQ ID NO:2008: (Length of Sequence = 360 Nucleotides)

CTTTTCTGGA GAAATAATA CGCTCGTCC TCTAATTAGC CCATCGGTTT CAGGTTCACT ACTCTGCTAT CTTCTCCTGG
AGTTTACACA AGCCCTCAG AGTGTAACA CCGATGTGGA TTCAATCCA CTCATTATTT TTTTCAATAA AAAGAGAACT
GTTTCAACAG ACAGGTGTTG TTTCCGACAT CATCAGAGAG GAAGGTGGAT GGTCTATAC GGTAAGCAAT CTACCCTTCA

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GCTGCCAGGG ACAGATCCAT AAAANTCCAA AAAGGGAAGA GAGAAACAGC TTGAGTACAG CTGAATCATT CACAACAATA
TTACAAGCAA TTACTTCAAT GGTAAAGTCT CCACTCTAGA

SEQ ID NO:2009: (Length of Sequence = 411 Nucleotides)

ATTACGGGCA CCTGCCACCA CGCTGGCTA GTTTTGTAT TTTTAGTAGA GACGATGTTT CACCATGTTG ACCAGGCTGG
TCTCGAACTC TTGACCTCAA GTGATCCACT CGCTTCGGCC TCCCAAAGTG CTGGGATTAT AGGCGTGAGC ACCTGTGCCC
AGCCTCACAG CTGCATCTTA ACCTTACCTT TGCTCTGCC TCTCAAGCTG GTACCTCCTA ATTTACATCC TAAGAGTGGA
ACCATGTGAC AAGGACTGGA GTGCCATTGG CTGTGGACTG TTCAGGCAGG GAAGTACAAG ACCACTCTTG TATTCAGGGG
CAACCAAAGG AGAGAATTAC GTACTTGTG AGTACAACT GCACCAAGCC CTGGAGACCC ATTACCACCG TTAACCCTCA
ATACAGCTCT G

SEQ ID NO:2010: (Length of Sequence = 311 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGGG AAGCTGTGTG CACGCGGTG GAGGGTNCCT NTGGAGCTGA CCGGGCCCTT
ACCTTCTCTT GCTTGTGAGA GGTGAGTCTT GGTACCCAGC ACGGTGGCCT CCGGGAGGCT TTGATAGGTC AGCCTTTGCT
GCCTCCAGC TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCCC ACAGCCCGAG GAGGGAAGCA CCGACCGCCC
TCCTCGTGGC CAGTTGACAC ATCATCCAAT TATTATCCTT CAGAGTCTAA AACTTCTCTG TGATAAACC T

SEQ ID NO:2011: (Length of Sequence = 192 Nucleotides)

TCAGGACATT TCAGTGAGGC CACCTACAAG CAGAAAGGAG GCCCAGGGCT AGGGACAGAN TGGCCCCAGA GCCAGTCAGC
TGCAGCAATT CTGTGAGAA AGGGAGGGCA AGCTGCCAGA GCANTGNGC CCAATATGAT GCCTACACGA GACAGATGTC
CCCAGTAGAG TGTGTTCACT GACCTTCTAA AC

SEQ ID NO:2012: (Length of Sequence = 367 Nucleotides)

GGATGACCTT CGAGGACGTG TGCCGGTACT TCACGGACAT CATCAAGTGC CGCGTGATCA ACACATCCCA CCTGAGCATC
CACAAGACGT GGGAGGAGGC CCGGCTGCAT GGCGCCTGGA CGCTGCATGA GGACCCGCGA CAGAACCGCG GTGGCGGCTG
CATCAACCAC AAGGACACCT TCTTCAGAA CCCACAGTAC ATCTTCGAAG TCAAGAAGCC AGAAGATGAA GTCCTGATCT
GCATCCAGCA GCGGCCAAG CGGTCTACGC GCCGGGAGGG CAAGGGTGAG AACCTGNC A TTGGCTTTGA CATCTACAAG
GTGGAGGAGA ACGCCAGTA CCGCATGCAC AGCCTTCAGC ACAAGGC

SEQ ID NO:2013: (Length of Sequence = 213 Nucleotides)

GATTTTATGG AAAAAAATTT CCATTTTNT TAAGAAATAA GGAGTTTNTG TGTGAGGGC ATGACTACGA GAGGCTGGAA
GCTTCCAACA GAGAATGCTG AACGANITCC CCCATGCCAT CGCCATGCAG CACGNCACCC AGCCCGATGA GACCATCTTC
CAGGCAGAAG CTCAGTATTT GCAGATATAT GCTGTGACTC CCATTCCAGA GAG

SEQ ID NO:2014: (Length of Sequence = 333 Nucleotides)

GTAAATAAA ACAGCAAATT CITAAATACA TTATGAGTAA AGAAAGATTA AAATAAGGNA ACAGTACTTA CTGTGCAACT
TTAAATTATA CCAAGTAAAG TACACCACCT ATTCATGAT AACATTTTCC CTACGTTGAA AACACAAAAC CTACTTATCG
ATATTTTGA TATTAAAAA AAGGACATTC ACTATTGTAG CCCTGACAAC TCTTCCAGTA TTTTAAACCA TTCAGATGTA
TTATGTGGGN ATATTTATTA ACATAATTIN GTTAAACACA TTTCTTCTA CACAACTGA ATTTTAAAG TGTCTATAAC
ATTTTCAATT ACA

SEQ ID NO:2015: (Length of Sequence = 179 Nucleotides)

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NCACCACTTA TTGTCTTCAA ACATTATGTC ACITTTAACTT TCTTAATTTG ACAAAGCATT CAAGAAACAT CTGCAGACTA
GTTTAAACAG ACAAATAACA CCTGTAAAGCA GACATGACTG TCCTAAATTG TTTATTAAGA AAGTTAAAGN GCAATAATGT
TTGAAGACAA TAAGTGGTG

SEQ ID NO:2016: (Length of Sequence = 293 Nucleotides)

TTTCCCTCC CCAGAGATGC TTTATTACAT GGTTTCATCA GTCATCAATG ATGGGTCCCT ATGCCCATGC GAGGAGACAG
GAACATCTGT GTGGTACATG GCACTGTTCC CCTCTCAGCT ACGCAGTCAG ATGGGGGCAG GGGGATGAAT GGGTGTCTGG
CTTCCCTGCT GTTGGGCAGG CTCTGAGATC TCAGCAGACA GAAATGAAAG CCTGGCAAAT AGGGAGGCAG GAATGTTCAA
GCATCGGTGA CCTCCATGTT CTGCAGCCTG TTTTCTAGGG TGACGTCTCT TTG

SEQ ID NO:2017: (Length of Sequence = 504 Nucleotides)

CGCGTGTGG CCGCGCTGTG GCGCGCTGC TGTGCGNCCC CAGNCTCCTC GTCGCCCTGG ATATCTGTTT CAAAAACCCC
TGCCACAACG GTGGTTTATG CGAGGAGATT TCCCAAGAAG TGCGAGGAGA TGTCTTCCCC TCGTACACCT GCACGTGCCT
TAAGGGCTAC GCGGGCAACC ACTGTGAGAC GAAATGTGTC GAGCCACTGG GCATGGAGAA TGGGAACATT GCCAACTCAC
AGATCGCCGC CTCATCTGTG CGTGTGACCT TCTTNGGNTT GCAGCATTTG GTCCCGGAGC TGGCCCGCCT GAACCGCGCA
GGCATGGTCA ATGCTGGACA ACCAGCATCA ATGACGATAA CCCCTGGTTC CAGGTGAAAT TNCNCGGAG GGATNTGGGT
AACANNINTT GTTACGAAGG GTGCCANCCG TTTGGCCAGT ATTGGTACCT AAAGGCTTTA AAGGTGGCCT ANAGCTTAAT
TGGNAGGATN CGNTTNTTCC ATGT

SEQ ID NO:2018: (Length of Sequence = 354 Nucleotides)

AGANCAGACC CACAGGCATG CAGAAAGGTA GGGCAGTATG TTTAANTCCA GACTTGGCAC ATGGCTAGGG ATACTGCTCA
CTAGCTGTGG AGGTCCCTCAG GAGTGGAGAG AATGAGTAGG AGGGCAGAAG CTTCCATTTT TTTCTTTCCT AAGACCCCTGT
TATTTGINTT ATTTCTGCCC TTTCCGAGTC CTGCASTGGG CTGCCCTGTA CCCTGAACCT CATGAGCCTC TAAGGGAAAG
GAGGAACAAT TAGGACGTGG CAATGAGACC TGGCAGGGCA GAGTACAAGC CCAGCACCCA GTGTCCAGN CTTACTGGGT
CCTTANCCCTG GGCCAAACAG GGAGGGCTGA TACC

SEQ ID NO:2019: (Length of Sequence = 295 Nucleotides)

GACACAACCT TTTGAACAT TGTCTGTGTT TTCATTTTAA AAAGGAACCT TTAATACTAA AATTATAGGA AGAACATAAT
ATCTGACGTC ACGTAAATTC AGATTGAAG GAAATTTACT TTTTNCCTT ATTTGINTT ATTTTTCCTC ATTTTGTAA
GAACCAGCGA ACACTTTGAA GAAAGCCAAA AGTTTACATC TGGAGCTGGA GGGTCTGTG ACTGCACACC AGGCACTCTG
CCAGCCCTAC TTCTGCCTGT AGTCCTGCAG GTCACITGCC AGAGGTGGTA CTTTC

SEQ ID NO:2020: (Length of Sequence = 217 Nucleotides)

ATTGGAACCT AAGTTTCACA AGGAAAGTGG TCACITTAGT TCACCACCTT CCTTGTGAAA CTTAAGTTC AATGGGAGAA
TGACAGTAAA CAGACAATA TTATAATANG TCCATGGAAG ATTTTGGTGT ATGTNAGATT TNCAAATCTG TAGAGAAACN
TNGGCTCAT CAATAAAAAT TTTGAAACCA TTGATTAATG TCTTAATAAC TATATGT

SEQ ID NO:2021: (Length of Sequence = 380 Nucleotides)

TTTTTCTTA AAACAACAGC AACGTGATCT TGSGTGTCTG TCATGTGTG AAGTCCATGG TTGGGTCTTG TGAAGTCTGA
GGTTTAAACAG TTTGTGTGCC TGGNGGGATT TTTTACAGC GAAGACTTGA GTTCTCCAA GTCCAGAAC CCCAAGAATG
GGCAAGAAG ATCAGGTCAG CCACTCCCTG GAGACACAGC CTTCTGGCTG GGGACTGACT TGGCCATGTT CTCAGCTGAG

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CCACGCGGCT NGTAGTGCAG CCTTCTGTGA CCCCGCTNTG GTAAGTCCAG CCTTTCCAGG GCTGCTGAGG GCTGCCTCTT
GACAGTGCAG TCTTATCGAG ACCCAACGCG TCAATCTGCT CATCCNTAAA GTGGGGGATA

SEQ ID NO:2022: (Length of Sequence = 223 Nucleotides)

GGTCACACAG CTAGTTGGTA GAGGAGCTCT TCCATAAGAT AGCAAGGCCA CATCACCTGC AGGGCAGTGC CTGCNCTGGG
AGGTGGCACA ATGTGCCAAG TGATGACGAT GACAATAACT ATGAAAGGAT TTTATATTG CACAGCAITTT GGTTCCTGA
TCTTCGATGA GGAAGAGCTC CTGCCGATGT CTGCTGAATT GTGCAGTAAA ATATTCAGGA TGG

SEQ ID NO:2023: (Length of Sequence = 294 Nucleotides)

TATTCTTAAG TTGCACTTT ACAAACCAC AAGGGAGAAG TCCTTGAAGG GGAGACAGGG GTAGGGGATT AGGGAGTGGG
GGATGGTAAA GAGGGGAAGA GGAAGACCCA GAAACGAAGT CCCCTCCAAC CCCATCTCGG GGACCAAGCA GAGACTAGGC
CTCAGGCTAG CCCAGCAGGG TTCTGTGTCT CTGGTTGTAC AGAGCTAGGC CAAAAGACCT CAGGGGAAGG GCCATGGCCC
TCTAGAGACT GCCGCCATTT GAGGGACAGC CACAGGCCAA TGTTTCCTGT GCCC

SEQ ID NO:2024: (Length of Sequence = 234 Nucleotides)

ATTTTGTGCG GGTGCAAAC GTCTTCCTGC CTGAGCTGG GAGCTTCACC AGGCTTCGGT GTAGCGGACG TCCACTTCCT
TCAAATTGGG AAGCTTGGCC TTCAGATCTT CGTAGGTGTC AGCTGAGAGC TINGTGCTGT TCATGTTTAA ACTGCAGAGA
CTCTTCATGG AGCTCAGGGC CAGCAGGCCA GCGTCTGTAA CCGGGGTCTC GCACAGGTTT AGCACCTGGA GCAT

SEQ ID NO:2025: (Length of Sequence = 327 Nucleotides)

AGGAACAAAT GTTAAAGGGT AAGATAATTT CCTGCAAAA GGACACAGAA GGCAGTCTTA AGAAGATGAA TGGATGAGAG
AAGGGAGAGA ATAAATGCA ATAACGAGCC AGCATTITACT ATGTATTNN TCCTCACCTG TCTCTCCATA TTTAGGTCAC
TTACCAGTTT CTGTGCCCTT TTGGAGCTTT TMTGAGGGC TTCATTCTCA CCCTGTATTT CTITAGCCCT AAATTGACAC
TCTCTCCAAA AATCCATTC ATTGTCTGTG GACCNAGATG TTCTATGTAA TTCAGAAGCA GAATCTTGG CTAAAGGGCT
AGTGTTG

SEQ ID NO:2026: (Length of Sequence = 328 Nucleotides)

TCAGTATAAA TTTAAAGAA ACAGCTTAAT GAAATACAAG TCAGTTTATT TGATATTCAG CCTACAGCTT TCCAAAGCAG
CAGTTGAACA TGTGTGTGAG TTTATACCAT TCATTCATTC ATTTATTTT NCTTCTTTC TTTCAGAAAA TACTGGGTGT
TTGATATTTG TTTCACTGTG CTAGTTCTG GGAATGTGTA AGGAAGAGGC TGGCTGTGTG GATGAGAGCA ACTTGCTTTT
TACAATAATT ATTTGTTATT GTAAATTAAC AATTTGCTCT TCTGGTATTA TATGGAAGTA TTTGATCCNG TTGATGGCAC
TGCCTTTG

SEQ ID NO:2027: (Length of Sequence = 307 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGG AAGCTGTGTG CACGCGCGTG GAGGGTNCN TTGGAGCTGA CCGGGCCCTT
ACCTTCTCCT GCTTGTGAGA GGTGAGTCTT GGTACCCAGC ACGGTGGCCT CCGGGAGGCT TTGATAGGTC AGCCTTTGCT
GCCTCCAGC TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCCC ACAGCCCGAG GAGGGAAGCA CCGACCGNCC
TCCTCGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTTCTCT GTGATAC

SEQ ID NO:2028: (Length of Sequence = 272 Nucleotides)

ATCCATTTCT GCATTAACCT AGAGTTAAAA AGGAATATTG TTTATTGTTT GGCTCTCCCC ACTAGAAGTT TCACAGNGC
ACAGATCATA TCTACCATTT GAACAGCTCT CTGCCTGATG GCTAATACAT TTNTGGCAT ATAGTAGGTA GGTGCTCAAT

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AAATTTNITA CAGGAATAAA TGAGATAGGA TTTTCAAGGG TATTINCTAT TAGGATTTAA TAAACAAAG TGATCTTTAG
AGAAACAAAT CTCCCCATCA ACATGCTATA CT

SEQ ID NO:2029: (Length of Sequence = 261 Nucleotides)

ATTTCTACTA AAANTACAAA AAATTAGCCA GCGTGGTGG TTGTGCACCT ATAATCCCAA CTACTCGGA GGCTGAAGCA
GGACAATTGC TTGAACCCAG GAGGTGGAGG CTGCAGTGGG CTGAGATCGC ACCATTGCAC TCCACCTTGG GCAACAAGAG
GGAAACTCCG TCTCAAAAAA ACAAACAAA ACAAACAAA AACAAAAGTC AAGTGCTTAC ATTTTGCCAG AAGCCACAAA
TGAAGACTGT GCCTTATAGG C

SEQ ID NO:2030: (Length of Sequence = 384 Nucleotides)

NNCCNNGGAC CAACAGCAGC CAGAGCAGTT AGCCAGTTAG TCCCCAGGCC TGTGGCACAG GCGTTTCTGA CCTGCTGGGC
CGAGAATGGG TAAGTTGTCT GGAGTCAGGT GGGCCACGT AGGACAGGGT CACAAAGCCT GGGTTTGTIT CTGGGTACTT
TGCGCCTCTG GGGTGCTAGA GGTGGGGCAT GGTGGCTGGA AGTAAACTG CCAACTCTGG CCCTCAGAAC TCTCAGGIAT
AGAAGCCCAA GATGTCTAAT ACCCTNTCCC AGTGCCCGAG AGCTGCCTGG TGTGAGGTAG AGAGGACACT GTACCTGGGT
GAATGATCAG ACCCTGGTAG CTAAGAAGGN ACTTGTCCCT TTAGTCAGTT TGCAGANCCC CTTT

SEQ ID NO:2031: (Length of Sequence = 261 Nucleotides)

ATCAGAGAG AGAAGCCACT GTTGCCAGGA CAGACGCTG AGCGGCCAA GGAGGCTGAG TTAGCTGCCC GANTCCTCCT
GGACCAGGGA CAGACTCACT CTGTGGAGAC ACCATACGGC TCTNICTACT TCACTGTCTA TGGCACCCCC AAACCCAAAC
GCCCAGCGAT CCTTACCTAC CACGATGTGG GACTCAACTA TAAATCTTGC TTCCAGCCAC TGTTTCAGTT CGAGGACATG
CAGGAAATCA TTCAGAACTT T

SEQ ID NO:2032: (Length of Sequence = 344 Nucleotides)

CCCCTGCAAG GCGTCTGGTT CTTGGGGGAA AACGCTCACC CACCCCTGGT AAAGGGCCTG CAGATCGAGC ATCCCGGGCC
CCACCTCGAC CACGCAGCAC CACAAGCCAG GTCACCCAG CAGAGGAAAA GGATGGACAC AGCCCCATGT CCAAAGGCCT
AGTCAATGGA CTCAAGGCAG GACCAATGGC CTTGAGTTCC AAGGGCAGCT CTGGTGCCCC TGTATATGTG GNTCTGCGCT
ACATCCCGAA TCATTGCACT GGCAGACTG CTGACCTTGA CTTCTCCGT CGAGTGCGTG CATCCTACTA TGTGGTCAGT
GGGAATGACC CTGCCAATGG CGAG

SEQ ID NO:2033: (Length of Sequence = 373 Nucleotides)

GGAAGAAAGA AAGAAAGAAA GAAAGAAAGA AAGAAAATGG CCCCATAGTG CTAAAGTCCT CAGACATGTG TCCTGGTGCT
GGGGACAGGG CTTCTGACAT TCTCTCAGGT CAGTATTTGC AGGTACATCCA CCTTCGACTT CAACACATGT GACCAGAAAC
CTCCCAAGG CAGCCATCCA CTTTGCTGTC CCTCCGACGG CCATGGCTGA CCACTGCTGC TGCTGTGTAT CCTCGGTGAC
ATCTGGCCTT GGCAGCCTAT GGATTTNTGC CATTCTCTG GCATGAAATC ACTCCTTCTT GTTGTITTTAA TTTGCATTTC
TTCAGTTACC AGCGCAGTTG AGCATCTTTT CATACACTTA CTGACCATTT CTA

SEQ ID NO:2034: (Length of Sequence = 289 Nucleotides)

CCACCAAAGA ACATCAGCT GTCTTATGTC AAATGCTCGA CAATACCTCT CAGTAGGACG TTGTTGCAAG GCTAGCTAAT
TTTAAATCTG GTATGAGTAA TACAGTCAA CCTAGTTAGT ATGOGAGAAA GTGTTGCTA ACGCATGGTG AGAGGATGTG
ACGTCACAGC ATGAGCAGTC CCTGGTTGTC CCATTGTGAG ATAAAGTAG TNNAGTAGNT CCAAGTTTCT ATTCCAGGTC
TCTGAACCCC AAAGCCAGGC CTTTCACTTT TGCTGGGTGG CCTGGAAGC

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SEQ ID NO:2035: (Length of Sequence = 290 Nucleotides)

CTTTTCCTTC ATCTGAACAC AGAAGGAGCC ACGGTCTGGA AAGTNTGCCT GTCCCTCCCG GGAGTGGGGA GGCCGGTGTG
 AGTTTGTATC TTCCAGCTCA GGCAGACACC TTACACAGTG CAAACAAGAG CCGTGTCAAG ATGAGAGGGA AGCGTAGACC
 GCAGACCGT GCAGCTAGGC GGCTGGCTGC TCAGGAGTCC AGCGAGGCTG AGGACATGAG CGTCCCCAGA GGACCCATTT
 GCACANTGGG CTGATGGCGC CATTTCCCCA AATNGCCATC GGCACCAGCT

SEQ ID NO:2036: (Length of Sequence = 241 Nucleotides)

TTATTTTATA TAAAAAGTGT TTCTGTGATT CTCCAGAGCC CAGGAGTCAG TNCTGGTGGT TGGAGGGACC TGCCCCCACT
 GGTTCATTTA ACCCTCTGTC TCGGTGCCCT NAGAACCTCA GCCAGAAAGG CAAGGAGGAA ATCAGAGCAN GAGCCTCATA
 CTCITGGTGA TCTATTCAIT CTNTGACCTC AGGGGTCA CA TATAAGGTCA GTGTTTCTCG TCCCCGNCGG ATCTGCACTG
 C

SEQ ID NO:2037: (Length of Sequence = 270 Nucleotides)

CTATTATTTT GCATTTTGG TAGAAGGGGT GGTCTCACC A TGTCGCCAG GCGGTCTCG AACTCCTGAG CTCAAGCGGT
 CCACCTGCCT CAGCCTCCCA AAGTGTCTCG ATTACAGGCT TGAGCCACTG CACCCTGCCC AACCTTGACT ACTTCTAATA
 GGGATGAGTC GAGTAGCACT TNGGGGCGTC CTGTGCGGCT GGGTCTGCCT GAGGCTCCCC TGGGCCCGT CCATGGCTTG
 TTGTGCATCT GGCCTGAGT GCCTTGGCCC

SEQ ID NO:2038: (Length of Sequence = 151 Nucleotides)

ATTTTAAATT GAGCATTAG GGAATGCAGC ATTTAAATCA GAACTCTGCC AATGCTTTT TCTAGAGGCG TGTGCCCATT
 TTTTNTTAT ATGAAATINC TGTCCCAAGA AAGGCAGGAT TACATCTTTT TTTTNTTTT TAGCAGTTT G

SEQ ID NO:2039: (Length of Sequence = 166 Nucleotides)

TTTGTCTGTT ACAACCTCCG TATGAAGCCA CGCCACCCGC TGTTCAGTCC CCGTGGCCT CCGTGCACAG CCACACGCTG
 CGCCCGGAAG GCCCCTGCTG TGGAGAAGCC GGACCCATCC CCGAGGTCCC CAGCGAGGAC ACANACTCCA CGAGAGCAGC
 CCTCC

SEQ ID NO:2040: (Length of Sequence = 362 Nucleotides)

GAAGTACGGT TAAATTAGA TTTGACCATA TGGAAGATCT TTTACCAGTT GGTCTCCAAG AATGTCTTCC TTATTATGTT
 ATTGGTCATT TTTGAGCGTG TGTGTTGGTG GGGTGGTTTC TGCCCTATAT TCCTTAACTA CATGTATAT TTTTGTAAAG
 AATTGGGAAT TCATTTTAAT GCMTTTTAAC ATCTTCACTG GGAAGTGGAA TAAAGTTATT CTGACTCTG TACCTTGAGC
 CATTTGCAAA GTCAGGGGTT ACATTTTAGG TATCTAAAAA TTACTCTTTA ACTTTCACAT TCCCTGGGTT AGGAAGCTGC
 TGTTCAGGAG AAATTTTCCN GGTCTTCTG GCAATTGGCT TA

SEQ ID NO:2041: (Length of Sequence = 360 Nucleotides)

CCTAATTGTA AGTNATGAAG TCGAGGAGGT GCGTGATAAT GGGCCAAGTG AGGATGCAAT GCACCAGGTG TATAAGTAGC
 TGCAGTCACT CCAGCTTCAA TTCCAGTTC CCAGGCAGAC CTCTCTGGAG CCTGTGAGG ATGTNAGGAC ATAGTCTGAG
 GCACATGAAT ATGATGCCA TGACCATAGT TTGGGTGCAT CCTATGTGGA TGGGGTGGG GCGTTCATG TGCCCGCNTT
 GGATGCTGCA TCATCCTCTT CCTTGAAGT TCATCCTCT GCATCACTTC ATGAGGATGC AGTCTCTGTN CTGGAGGTGC
 TGTGGCTGGA ATATGGTGG AAATGGCTG GTGTGTAGGA

SEQ ID NO:2042: (Length of Sequence = 403 Nucleotides)

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GTATTGTTG TTTGAGATGG AGTTTCACTT TTNTTGCCCA GGCTGGAGTG CAGTAGCATG ATCTCAGCTC ACTGCAACCT
 CTGCTCCCG GGCCCAAGCG ATTCTCTCC CTCAGCTCC TGAATAGCTG GGACTACAGG TGCCCAACAG CACACCCGGC
 CAATTGTTGT ATTTCTAGTA GAGATGGGGC TTCTTCACGT TGGCCAGGCT GGTCTCGAAC TCCTGACCCC AGGCGATTCC
 CCCACCTCAG CCTCCAAAAG CGCTAGGACC ACAGGCGTGA ACCACTGCGC CCAGTCGGAA GTAATAGTTA TTAACCAATG
 TGATGGCCCG GTGTAGGGAC CCTCGCTGT AATCCAGCA CTTTGGGAGG CCAAGGAGGG AGGACCGCCC GNGACCAAGA
 GTT

SEQ ID NO:2043: (Length of Sequence = 331 Nucleotides)

CCCCGTACGG TGTGGCTCTC AGCAGCCTCA CCACAGGCAC CGCAGCTTTC CCGCTGTGCA CCCAGCTGGG TGTTGGAATC
 CCCCTGGACT GCGCCCAGGC CACCTTCATC TCCCATGACA AGATGGTCAT CTCCCTCAAG GGCACTCAGA TCTACATGCT
 GACCCCTCATC ACCGATGGCA TGCGTAGGTT COGAGTGTTC CACTTTTGAC AAGGCGGCCA CCAGCGTCCT CACCACCAGC
 ATGGTCACCA TGGAGCCTGG GTACCTGTTC CTGAGTTCTT GCCTGGGCAA NTCTCTCTC CTCAAGTACA CCGAGAAGCT
 TCAGGAGCCC C

SEQ ID NO:2044: (Length of Sequence = 244 Nucleotides)

ATGGAAGATA CTAAGAGCCT CAGTCTGGAA GCATTTACCT AGGAAGCGCA TATAGACAGA GAAGATCAAG GACTGAGGCC
 TGAGACAGTC AGCACTTAAA GGGTGAGGGG AGAAGTGCCA AGGAGACAAG GTGAGAACAG CAGAAGAGTA GCCAAGGCC
 AGGATGTTGC CACAGAAGCC AGGAGAGGTG AGCATGAAAA CAGAGGAGGA CCAGCTGCTG GGACAGAAGA GCCATATGGA
 AGAG

SEQ ID NO:2045: (Length of Sequence = 333 Nucleotides)

GTCAGGGATT TGTCCATTCT GCTCTGGCC TCTCTGAGG CCTCATAATG GGAGACCAA TCAAAAATGT CCCATGTCAC
 TTGATGGGT AACTGCCTA CAGAACCTTG AGGTTGACTC CTGCTTCAGT TCTCAGCTGT TTACCACAGC CCTCCAGGTT
 CCAAAGATTG AGGAGCTTTC TCTTCTGG GAGGAAGTGT CTCANATTTA GCTTGTTGT GTTTTGGACA GAGGCTCCAC
 AGCGTGGCT CTGAGGAAT CCTCACCAGT TTGINCTCTT CCTCTGACA AGCAGCACCT GAGCAGATGC TGAGGCAGTT
 CATTAAACCA GGG

SEQ ID NO:2046: (Length of Sequence = 274 Nucleotides)

GCAGGTTTAT GTTTTATTT ATGTATTINA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTAC AATATACTTG
 CAGAACTGTG CCTGNGCAT CATGGGAGCA GAGAACTGT CAGTGAATA GTTGTGAAG AAAGGAGTAA AATCTCCCC
 AAACCTAAA GGCATCCTTT TGTAGTGTG TGTCCCATAG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCCA
 AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTT

SEQ ID NO:2047: (Length of Sequence = 327 Nucleotides)

GGCCGCGATG TGCTTTTNTC CTGNTTCG TGCCCGGGAT GCGGAATCTT GAGCCTCGGT GTCGGGTTAC AGAGTTGTCC
 TGGTGACGGG ATGCGGAGGT TTCTCTCTT TTGTTGTTGG GCGGCTGGT GGCAGGGGCA GCTGGTGGCA GGGTTGCCCC
 CGCTAATCTC CGAGTCTCTA AGGGCACCCT CTTTCTGGA TCCCTCTTGC GCCTCGTCCA TAAAGGCAGA CCCGCGGGCG
 CGCGCCGGCA ACCTGAAATC AGAGCAGGCG TCGTGGCGC TCAGGAACCT TGCTGAGCTT CGCCGATCTT TCATTGTTGC
 TTCAATT

SEQ ID NO:2048: (Length of Sequence = 241 Nucleotides)

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ACTTTGTGTG TCTGATTTTA GGA CTCTGGC TGGCCATGTG CTNNGGTTG CCTCTCCTGC ATTINCCACT GGATTINCAC
TGCATCGTTT GGAGATACAA AGCGAGCAGT TCTTGGTCAG AACCTCTCTC TGCTTTTCAT TGTGTTTGAT AATGGTTACT
GGGTCCTTCT CTCAAGGGTA GCAAGGCCAA GCTGATGGCT GCTTGTITAG GAGGCCATCA GTTCCTTCTT GTGGAGAAGG
G

SEQ ID NO:2049: (Length of Sequence = 269 Nucleotides)

ATTTTITAGTA GAGACAGGGT TTCACCATGT TGGCCAGGCT GGTCTCAAAC TCCTGGCCTC AAGTGAGCCA CCTGCTTTGG
CCTCCCAAAG TGTGAGATT ACAGGTGAGA TATTCTATAT TCATGGATTG AAAGACTCAA TATTGTTAAG ATGTCAGTNC
TTTCTAAAGN GATTTTTTITAG ATGCAACACA ATTCCAATCA AAATCCAGG NTTTTTTTGT AGCTATCAAT TGATAGATAT
CAACAGCCAG CTGATTCTCA AATTTACGT

SEQ ID NO:2050: (Length of Sequence = 170 Nucleotides)

TTTTGAAGAG AACGTCAGTT TAATAAGCT AAATGGGGAG AATTGAAGTT TGCATTTGAC ATGGTATTAA ACAAACCAA
AGGGCTGAAA CTCATGTTTA GACAACACAG GTCCTAGTCT ACTAGGCAA GAAACAGTC CACAGCAGGT GGCACAAATA
ATTCCTATAC

SEQ ID NO:2051: (Length of Sequence = 262 Nucleotides)

CAGGGCACAC GCAGGACCAC TGTGGATTAG AAACCCACAC GTGTCACTCG CAACATTCCT CCCACATCCA CATCCACGAC
GGAGCCAAAT CTCATTTGTC ACCCTCAGTC ACCACCCAC AAGATGGAGC CGCTGGTTAC GACATGGATG ACAGGTGTCA
TGCACAGGGA GAGAATTTINT CCCCGGATAC CCTTGAGGAC CAAGGACCAC CCCAGGCTA GGGTGGGAGG ATTGAGAGCA
GTGCAAGAAA CCAAGGAGGA TN

SEQ ID NO:2052: (Length of Sequence = 325 Nucleotides)

GAAAAAAGAT TGTTTTGTTA GAAAAAGCAA AAACAAAAAA GCATTAGAAA GTGGGAGCCA CTGCACAGCA GTAGCCTAGA
GACTGGCTGC GATATGGTAG CTCTGCCTTG ATATCATCTT CGTGTCTTCA GGCATAGAGA AATGGCAGAG GAGCAGTAAG
ACCCACAGG AGATGGCCAG AGGNTCCACC ATCAGCCTTC TGGGGACTGA GGAGGTGATC TTAGTGAAT TATTTTATAC
TCACCTCCCC CGGGGTTTAG TCCTTCCTCC AAACACTTAG TTCCAGGGCG CAGGAGACCT GTTACTAGCA CTGTATGTTT
CTTTG

SEQ ID NO:2053: (Length of Sequence = 222 Nucleotides)

TTTCAAAAT AGTCTTAAGA GTATAAGCTG TTTTINAGGG CTGTAGCCAG ACTACATAAT GAGCGGTGAA AGCGGCTGCC
TTCCCTCTC CTGACACCAG CAAGGGGGAG GCACCATCAC CGGCCCTGCC CCATCATGCA TCCAATGATT ACTAGCACTA
GANGCCAACG GCAAAGGNCC CCGCGCGCTT GCTCGTGTIT AATCCAGGTT AAGCTATACA CG

SEQ ID NO:2054: (Length of Sequence = 341 Nucleotides)

GTAAATTAAG AATATGGCCC CAGAGTTTTG TTTATCTGGG GTCTGAGCAT AGATTTTATA TTCTCTGTG CGTTTTTTAA
ATCTAACTTT CTGTCTCCAA TGGAGAGAGA ACAGGGAGGA TACAGAAGTA TTGCAGCCA GATCCCTAT CAGGGGGACA
GCTGGTGGGC AAAGCAGCCA CCCACAGCC TTGTGGCTAG AGTACAGTGG GGTGGACCCT CCAGCCCCAA TAGCCCTAGT
ACCCAGCTGG CAGGGTTGCC CACCCCTGCT GTCCACCTGC TCCATCTCT AGGGGTTCCA CAGGCCCTG ACCGCACAGG
GAGGCTGGGG CCAGCCTGGT C

SEQ ID NO:2055: (Length of Sequence = 258 Nucleotides)

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CTGCCTCAGC CTCCCAAGTA GCTGGCATT A CAGGCGCCCA CCACCACACC TGGCTAATTT TTGTATTTTT AGTAGAGACG
 AGGTTTCACT ATGTTGGCCA GGCTGGTCTT GAATTTCTGA CCTTGTGATC CGCCTGCTC GGCTCCCAA AGTGTGGGG
 ATTACAGGCG TGAGCACCAC GCCCGGCCAA CTGTCTTTTC TCTAATGGCT GGCGATGTTA ATTTTTTCAC TGGCTTATTT
 ACCGCTCTCT TCTGTGGA

SEQ ID NO:2056: (Length of Sequence = 292 Nucleotides)

CTCTTGACTC CGAAGGCTGG TGACAGACAC ATAAGGCAGC TCAAACTCTT GCAACTTCCG TACAAAAGAA AAGGCTCCAT
 CCTCTTTTTT TCGAACTAAG AATAGACTAA AGTATCCAAT CAAGTCATCT GGAAGATCCA GCTTTGCAGC TACAGCCTCC
 AGGACATCCT CAGTCTGATC TGAAGTTAGC ACGTTGACCA GAACTTTCTG CCGTTGCTG AGCAGCACTT CCAAGGACAC
 TTCTCTGTG GGGACCTGCT GTGTCTCTG TTGTGCCGA CGCAGGAAAC TG

SEQ ID NO:2057: (Length of Sequence = 293 Nucleotides)

CCAAAAAAGT TGGGTGCTG AAGGTGGGGT TTTGATCATG GCCAGGCTTC AAATTTAGGT CAGGCTCTGG TGGTACATCC
 TTATATGCTT GGTGCTCAGC ACAGGTCAAG ACACACAATA GACCCTCAAT AAATATTTGC TGAATTTGAA CAATTCCTGT
 AAAAATCTCA TTAAGAGACA TCAGCTTGGG ACACAGTTCC TCTCTTACTG TTCCTTCTCC CAGAAGCTCC TGAATGAGC
 AGGTCTGGCG GCAGGGGGCA CACAGGGCTG CTGCTCAAAT CGGAGAATGG CAC

SEQ ID NO:2058: (Length of Sequence = 172 Nucleotides)

CTTCTACAGT CAAGGAGCTC AAGCTCGCCG GCGACCCCTG CTCCTGCTC CCACATTAAT GGCGGCATCC TCGGAGGATG
 ATATAGACCG GCGGCCCATC CGGAGAGTGC GCTCCAAGAG CGACANGCCG TACCTGCAG AGGCCAGGTT CTCCTTTAAC
 CTGGGGGCAG CT

SEQ ID NO:2059: (Length of Sequence = 245 Nucleotides)

GCAAGANGGC CGAGGGGGCC CAGAACCAGG GCAAGAAGGC CGAGGGTGCT CAGAACCAGG GCAAAAAAGT AGAAGGGGCC
 CAGAACCAGG GCAAGANGGC TNAGGGGGCC CAGAACCAGG GCAAGANGGC CGAGGGGTCT CAGAACCAGG GCAAAAAGGC
 CGNGGGAGCC CAGAACCAGG GCCAAAAGG AGAGGGAGCC CAGANTCAGG GTAAAANGAC AGAAGGGGCT CAGGGCAAAA
 AGGCA

SEQ ID NO:2060: (Length of Sequence = 318 Nucleotides)

ATGCCCTGTT AAGGAGCTTG GCTTGATCC TCTAGGCAGG GAGCCGTTGG AGGATTTAAG CCAGGGAGTG CTGCGGTTGG
 TCACACTGCG CATTTATGTA GATCGTTTTG GCAGCCAGGG GAAGGATGGA TTTNAGGGGG ATGAGATTAG AAAGCTGGGA
 TATGAGTTAG GAGGCTGAAA GATGGTTGAT AAAAATNATC GTTGGGCAGC CGAGATAACT GACTTCAAGG ACATATACTG
 GACTTATAGC AGAGCCTGTT GAGTCTTGCT TTGTCACACA GTTCAAATAA TCACTTAGTC ATGTGGTTTA TCTTGCCA

SEQ ID NO:2061: (Length of Sequence = 331 Nucleotides)

AAAAATAAAA ATCTATAAAC TACGGATCAT AAGCAACTCC TGTTTCTGTG GGTTTCACCA CATTCTCCAG AAAGTGAAGT
 TTTGCTCATA AAAATTACAT AGAATGTAAA CTAATTCAAT TTTTAAAGTA AATGCAAAAC TAAGGGTTAC ACAAGCACTG
 AGCATCAACA CTGACAGAAT ATTAATTCTG AAGCCCATTA ACTTTGACAA ACGTTTATTC ATCTTTGCCT TCTTGAAGCG
 TGTGACTATC CCAGTTTAC AGGAAAAGCT TAAACAGAAA AAGTTAAATA ATAATCTCAA GGTTAGNAAA CTAAGACATA
 ATTTCTAGCT C

SEQ ID NO:2062: (Length of Sequence = 316 Nucleotides)

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CTAAATCAA CCACATAATT GGACATAAAA GAATCTTCAG CAAATACAAA AGAACCAAAA TCATAACAAA CACACTCTAG
GGCCACTGCA CAATAAAAAT ACAAGTCAAG ACTAAGAAGA TCACTCAAAA CAATGCAATT ACATGGAAAT TAAGCAACAT
ACTCTCAAAA TGACTTTTGG GTAAATAATA AAATTAAGGC AGAAATAAAG AAGCTCTTTG AAATAATGA GAAGAAAGAT
ACAACGTATC AGAAACTCTG GGTACAGCT AAGGCAGTGA TAAGAGGAAA ATTCTTAGCA CTAAATGCTC ACATTG

SEQ ID NO:2063: (Length of Sequence = 312 Nucleotides)

ATCCATGGCT TTAGCAAGAT CCCAGTGTG GAACTCTCCT AGCAACTTGT NITCATCCAG TGATACTGGT TCTNTGGGGG
GCACTTACAG GCAGAAAGTCC ATGCCCGAAG TGTGAGAGTG AGCCGTAGAT CCCAGCCTC CACTGACAGG CAGAACACCC
AGTCAGATAT TGGTGGCAGC GGAAAATCCA CGCCTAGCTG GCAAAGAAGT GAGGATAGCA TTGCTGACCA GATGGCTTAC
AGTTATAGAG GACCTCAGGA TTTCAATTCT TTTGTCTCTG AGCAGCATGA ATATACAGAG CCAACATGCC AT

SEQ ID NO:2064: (Length of Sequence = 294 Nucleotides)

TACCTAAAGA ATCCTCAGAT GGGAGACCCA GCCAGTTTGG NTCACAAATT AGCAGAAGTC AGCCAAAATA TAGAGAACT
GCGAGTAGAG ACCCAGAAAT TTGAGGCCTG GCTGGCTGAG GTTGAAGGCC GGCTCCAGC ACGCAGCGAG CAGGCGCGCC
GGCAGAGCGG ACTGTACGAC AGCCAGAACC CACCCACAGT CAACAACINC GNCCAGGACC GTGAGAGCCC AGATGGCAGT
TACACAGAGG AGCAGAGTCA GGAGAGTNAG ATGAAGGTGC TGGCCACGGA TTTT

SEQ ID NO:2065: (Length of Sequence = 331 Nucleotides)

GAGCTGAGTT TCACCGTGT GCCCAGGCTG GTCTCGAACT CCCGGTCTCA AGTGATCCTC CTACCTCAGC CTCCCAAAGC
ACTGGGATTA CAGGTGTAAA TCACTGTGCC CAACCTGCTC AACTCTTGG AGAGAAGCAA GTCTTCTAGC TGAACGTGAT
AATGGCCTCA AAAGCAGTGT TGACAGCAGA TAATCTTCAC ACAGACAAAT GTCTACAGTT TCTAAATAAG CCAACTGTGC
ATATGGCCTA CAGGCTCTTC AGCATAACCT ACCCAAAGCT CAGGTTCCCT GAAGGCCAGG ACAGTACCTC GGGCCTTCAA
GCAGCATTTG G

SEQ ID NO:2066: (Length of Sequence = 321 Nucleotides)

GTCTTGANCT CCTGACCTCA GGTGATCCAC CACCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAG CAACCGCACC
TGGCCTTGAA CCGTTTGAAG TATTGATGCA AAAACAAGTG GTGAGCTATG GCCAAATTCG CAATTCAAAA AGATCCAAGA
AAGCAAGTTG AACATCTGA TTGGAGATGG GACACACCCA AACGTGTGTC TTGAGGTGGC TGCAAAGTCC TCCGCTCTGA
GCCAGINTAA GCAGGTTTTA CCCAGCCCA TGATTTAGAG AGATGTTNAG TGCAGATCCT GAGCTCAGCA GAGAGCAACA
T

SEQ ID NO:2067: (Length of Sequence = 335 Nucleotides)

CTGGCTCTGT GGCTCAGGCT GGAATGCAGT GGGCCGAGGT TGGCTCACTG CAACCTCCAC CTCCTGATCT CAAGNCGTCC
TCCCACCTCA GCCTCTCAAG TAGCTGGAAC TACAGTGGAA CTACAGGTGG ACAACATCAC ACCCAGCTAA TTTTINTNAT
TTTTGTGAGA GACGGGGTTT CACCTGTG CCGAGGCTGG TCTCAAACCTC CTGAGCTCAA GCAATCTGCC CACCTAAGCC
TCTCAAAGTG CTGGCATTAC AGGCATGAGC CACCGTGCCT GGCTTGGGAA GCTCTTTTAA CAGAGGTGAT GTAAAGTAGA
AAAAGCAGTG GGCTC

SEQ ID NO:2068: (Length of Sequence = 274 Nucleotides)

GCAACCGAAT GGACAGGGTA AAGAAGGAAT GGGAAGAGGC AGAGCTTCAA GCTAAGAACC TCCCAAAGC AGAGAGGCAG
ACTCTGATTC AGCACTTCCA AGCCATGGTT AAAGCTTTAG AGAAGGAAGC AGCCAGTGAG AAGCAGCAGC TNGTGGAGAC

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CCACCTGGCC CGAGTGAAG CTATGCTGAA TGACCGCGT CGGATGGCTC TNGAGAACTA CCTGGCTGCC TTGCANTATG
ACCCGCCACG GGCINATCGN ATTCTNCAGG GCTT

SEQ ID NO:2069: (Length of Sequence = 321 Nucleotides)

GTGCCATCTG TTTACTTCTC AAATGAAAA GAATTCAGGT CTGAGTGTCC AGGAAAGGGG GTGAATTTCA TAACCGCCTG
TGACAGCGAT GGAAGGAGC CACACCCCTC CAGAGGGTAC CACCCAGCGG ACAAGTGGGG AGGAGGAAGT AGCTGGCATG
AAGCCGGCCC ACCCAACCTC CGGGAGAGAG GAAAAGGAGA ACACGGGATG AGGAGGCTTT AAATAGTATT TCATAAAATA
AAAAATGCCA GCACTCTTAG GAACCTCTCA TTCAACCGCC TAGTPTTTTGT TTAAATAATT CTAATGCCAG AGCTGGGGGG
C

SEQ ID NO:2070: (Length of Sequence = 161 Nucleotides)

AAAGCTGCAT AAAACAAGTT TAATTTCCAA CCAGGGTCAC AGTCATCGCG TTATCCCACA TTTTGAGCAA GGATAGAGAA
GGTGAGTTAT TAAACATATA CAGTCTACAT TCCAGAGGAG GAACTGCAGT TACCACTATA ACACCACAGA CAAACTTTGG
G

SEQ ID NO:2071: (Length of Sequence = 288 Nucleotides)

GTGGAAGGGC CTTCATACAT GCTTCCCATC TTCAGGAACA TCAGAGAATT CATACTGGGG AGAAACCAAT CAAATGTGAT
ACATGTGGTA AGAACTCCG TCGTAGATCA GCACCTAATA ATCATTGCAT GGTCCACACA GGAGAGAAAC CATACAAATG
TGAGGNCITGT GGTAAGTGT TCACTTGTAG CTCAAACCTT CGTATCCATC AAAGGGTCCA CACAGGAGAG AAACCTTACA
AGTGTGAAGA ATGTGGTAAAG TGCTTTATTC AGCCTTCACA ATTTCAGG

SEQ ID NO:2072: (Length of Sequence = 284 Nucleotides)

TCITGTCTTC AGACCCCTTT GCGTATTTGT CCTCCTAAC TGGGACCTAA GCTAAGACTC AAGGGCTGCT CCCATGCCCT
TCAGTATCCC CCATAAAATC TAACTACACA TTAGAAACTC AAAGAATAGC ATAGGCATGA TCCATCACCT GCAACAGAAG
CAGTGAGGAG ACTTAAGCCA GGGTTCCCTC AAGNGATTC ACCGACCNTT CCTGCATCTC TGNATGCCGG ACTCCTAAGC
ATTACTCAG ATTTTAAACA GCACATAATG CCATGGCGAG GATG

SEQ ID NO:2073: (Length of Sequence = 270 Nucleotides)

GGAGCGATAC GCCCCTGTG CGAAGGACCT GCGTCTAGA GATGTGGTGT CTGGTCCAT GACTCTGGAG ATCCGAGAAG
GAAGAGGCTG TGGCCCTGAG AAAGATCAG TCTACCTGCA GCTGCACCAC CTACCTCCAG AGCAGCTGGC CACGCGCCTG
CCTGGCATTN NANAGACAGC CATGATCTTC GCTGGCGTGG ACGTCACGAA GGAGCCGATC CCTGTCTCTC CCACCGTGCA
TTATAACATG GCGGCGATTC CCACCAACTA

SEQ ID NO:2074: (Length of Sequence = 278 Nucleotides)

GCACATGCCA TCAGTCCCTG CTAATTTTGT TATTTTGTAGT AGAGACGGGG TTTCGCCATG TTGGCCAGGC TGGTCTCGAT
CTCTGACCT CAGCTGATCT GCCACCTCG GCTTCCCAA GTGCTCGGAT TATAGACAGG AGCCACCCTC CCGACCCCTC
TCTCACTTCT CAAATCTCTT TCCTTTTCTC ACCTTCTAGG TGTCAAAGAC AGTGGATGGT CTCTGAGGTT CAAACCAAG
CTGACCGGGT AAGTATTTAC AGCAAAGCAT CCAATGGG

SEQ ID NO:2075: (Length of Sequence = 232 Nucleotides)

GTCTCTAGGA TCACTCAA CCCAGGATCA CGGTTTGTGA ATGTTATCAA GGCATGATTT TGGATTTTCA AGCTGGCCCA
GTGAACAACA AGCAATCAAG CATTCCTTTC TCTTCTTTC TCTCTCTCAC ATATACACAC ACACCTCTTC TCTCTCAAGT

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TACTTTCACT GTCACITTTCT CTCTACTGGA TAACAGGCCA AAAGTACTGG CACTCATCTT TCACTTTCTT CC

SEQ ID NO:2076: (Length of Sequence = 223 Nucleotides)

GTCACGAGGT CAGGAGATCA AGACCATCCT GGCTAACACA GTGAAACCTC ATCTCTGATC TATTCAGGGC TCINACTTCT
TCCTGGTTTA GTCTTGGGTG GGTGTATGTG TCCAGAAATG TATGATTTC TTCTAGATT CTAGTTTATT TGNGTAGAGG
TGTTTATTCT CTGATGGTAG TTTGTATTTC TATGGGATCA ACGGTGATAT GCTCTTTATC ATT

SEQ ID NO:2077: (Length of Sequence = 323 Nucleotides)

GTCCCCCTTC CCCTCTTGTG AGACCAGGCT CTGTCTCAGG AACAGGCCTG AGGGAGGAGG AGCCACGTTT CTCCTTCCTT
GGAGCCCTGA GGTGGCCAGG CTGTCCCCAC ATAAAGCATG ACATCCAGGT GCCAGCTGGC TAAGAAATGG AGCCTGAGGC
TGCAGCTCAC CACCTGTACC TCACAGATGT CCATTCAGAG GAAAGAAGGG TGCTCCAAAC GCCAGGCCCC CAAGGAGCAC
AGACTCAGGG TCCAGGCAGG TTCAGTGCTA GTAGGCAGGT GGGCACTGCT GTCCAGGAAA ACCTGGTGGG CAGCTGTTTT
CCC

SEQ ID NO:2078: (Length of Sequence = 310 Nucleotides)

AATTTGCAGT TGTTAAATCA AACCTACTGA CATTTATAGT CCCTTACTTT CTCITCTTTC TTCCATTGTA AATGCTGAA
ATGTGCTACA GTCATACITC CCCTGTATT TTTAGGTTTT ACTCTCATAC TTCAATAATC ACTACCACCC TTTATTTCAA
TAAAGTTTT AAGTCAGTGC TGATTTTTTG GTAGCTCCCA TTTCTGATA TATTTGTCAT GTACATATGC AAGTGTATGT
AATGTAGGTG TGCATCTATA TATACCCACA TATACATATA TACATATACA TATATATGTC CATATACAG

SEQ ID NO:2079: (Length of Sequence = 281 Nucleotides)

GAGACCTGCC AGAAGATTAA AAAAAAGAAT GAGAGAAAAG CCCAGTTAGT GGTGTGCAAA CTTACTTCCT TTAAATGTCC
CATGGATGTA GGACAGTGCC ATGTTTCAAG ATGCCTGTGA GCTAGGTCTT CAAGATTTAT AGAATGTTAC TTATGAACAA
AATATAATTA TTTATGGTAC AATTCTTGTA CTTTAGCAAA TCTGGAGTTA GTTCATAGTC AAAGTCAGTT AATATTTCTT
AGAGGAAAGT TTTGGCTTTT TGTGGCAACA TTTTATAGC T

SEQ ID NO:2080: (Length of Sequence = 311 Nucleotides)

ATTAAAAAGA ATATTATTTA TTATCTNCTT TATTAATACT CACATGTAAC CTTTGCTTTT TACACAAAAG TCTGCTTTAG
AAGAATGCCT CCNCGGCTTA TCATGCCCAA TGGGGCTTTT TGTTTCTGGA CCACTTCCCC TTCTCCACC CCCACCCCA
CATCCAAATT ACTCTTAACA TGTTACAGA TACCACGNAT ATTTTGTAAG CAAGNTTGG GTTACTGGAA CTTGATTTC
TTAATATCCC ACTTCAAAT GGAAGGCAGG TGGAGGGCAG GGTAAGGNAA TAGGGGGAAA GAGGGCAAGA G

SEQ ID NO:2081: (Length of Sequence = 207 Nucleotides)

GGACGCACGC TCGCTGCCAT CACCGCTGGG TGGTTTTTTC CCCCTAAGTT TTTACTTAGC CTTTTTGGTT TGINTCCCA
CCCCACCTC CTCACCCCTT TTCCAGTTCT TCTTCAGGCC CCTCCAGAC GCACCCAGC GGCCCTGCA GCCCCTGCCT
CCAGCCTCCA GCCTCACCTT TGTGCCAGA CTCGCATTG GAAGACT

SEQ ID NO:2082: (Length of Sequence = 260 Nucleotides)

TTAAAGAAA GTGCATACTT ATTGCAAGG AAAACAAATG GAATAGACAA AAATTTTAGA ATATAAAGAC TTTTINCAT
TTATGTATGT GTTTACAATT CAAAATAATA AAGCTAGTTA AAAGTCAATA CATATTAGAT ATATTCAAAT ATTTNCCAA
ATAAATTTG ATCTTATCAG TTAACACCCA TAGCAAAGA CTAAGGAGTA TTTGTATAAC ATTAGGGTAT TTGACCTCAT
ATTCTATTCA TTTGGGTTA

SEQ ID NO:2083: (Length of Sequence = 257 Nucleotides)

AGTTTCATAT GTTTATTAAA CCAAGCATGA GGCCCTTCTG TGCACAGGGC CCTGTGTGAC GGCATGGGAG GCGTGCTCAT
GAGGCTGGGC GTGCCC GCCA GAGACCTTTC TAAAATGCAG ATTCACGACT CTCCTCCTCA AGCCACCCTA GTGGCCAGTG
GGGTCATTTC GGATCAGAGA TTCCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTINAGGA
ACTAGCTGCT AGGCTCT

SEQ ID NO:2084: (Length of Sequence = 255 Nucleotides)

TATTATACAG CATTGTCAAG ATTATTTGAC AAAAGGCAGT AACAGCCGA AGGAAAACAC ATTTACAAGA AGCTGAACAA
CTTGTATCAG AACATACATC AAGGTGAAGA GTTTCGGCCC TCTTGGTATA GGGTATGTAT GTGTACATCT CCAATTTTGA
ACAATGATGA CATAAGNCT AATACTCTAT TTATTCAGGN GACCCATAA TCAGGATAAT AGTAGGCATT CAGAGTAATA
AAGTGATCAC AGTTG

SEQ ID NO:2085: (Length of Sequence = 290 Nucleotides)

GGACGCACGC TCGCTGCCAT CACCGCTGGG TGGTTTTTTC CCCCTAACIT TTTACTTAGC CTTTTTGGTT TGTGTCCCA
CCCCACCTC CTCACCCCTC TTCCAGTTCT TCTTCAGGCC COTCCAGAC GCACCCACAG GGGCCCTGCA GCCCCTGCCT
CCAGCCTCCA GCCTCACCTT TGTGCCCAGA CTCGCATTG GAAGACTCCA CCTCCCGCCC AGGCCTGGGC TGTGGGCGG
TTGGAGATTG AGGTTTTAAT CCACACAAGC CCCAGTGAGG GGTGAAGCAT

SEQ ID NO:2086: (Length of Sequence = 342 Nucleotides)

AGTTTCATAT GTTTATTAAA CCAAGCATGA GGCCCTTCTG TGCACAGGGC CCTGTGTGAC GGCATGGGAG GCGTGCTCAT
GAGGCTGGGC GTGCCC GCCA GAGACCTTTC TAAAATGCAG ATTCACGACT CTCCTCCTCA AGCCACCCTA GTGGCCAGTG
GGGTCATTTC GGATCAGAGA TTCCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTINAGGA
ACTAGCTGCT AGGCTCTCTA TCCTGGGAGA AGAAGGTGAA GGTTCGCCAA TATCAATTTT CCCAACTCAG CCAAGATTTT
CCCAGCATCT NCAGGACAAG TG

SEQ ID NO:2087: (Length of Sequence = 306 Nucleotides)

TATTATACAG CATTGTCAAG ATTATTTGAC AAAAGGCAGT AACAGCCGA AGAAAACACA TTTACAAGAA GCTGAACAAC
TTGTATCAGA ACATACATCA AGGTGAAGAG TTTCCGCCCT CTGGGTATAG GGTATGTATG TGTACATCTC CAATTTTGAA
CAATGATGAC ATAAGNCTA AATACTCTAT TTATTCAGGAG ACCCCATAAT CAGGATAATA GTAGGCATTG AGAGTAATAA
AGTGATCACA GTTGAATGAA CGTGTTCACC AAAAGTCTTA GACCAACCTG ATATCATCTT ACACCTT

SEQ ID NO:2088: (Length of Sequence = 326 Nucleotides)

ATGAATAAC TTAGGCAATC TTCCACTTTG ACTGAAATGA TTAAGATCAG TTTACCGAAA GTCATTTTCAT CCTTGCCTTG
CAGGCATCTG GCTATTCTTG GTGCAGGGCT GATGGGAGCA GGCATCGCCC AAGTCTCCGT GGATAAGGGG CTAAAGACTA
TACTTAAAGA TGCCACCTC ACTGCGCTAG ACCGAGGACA GCAACAAGTG TTCAAAGGGT AAGCCTGCTC TCTCTCTTG
CAAGAGTTAG AATGTCCTTT GTTCTTGGT TAGTTGTTTT TTGTGGTGGC TTGGTGGGTT TTTTGTGTTG TTGTCTCTG
CCATCA

SEQ ID NO:2089: (Length of Sequence = 291 Nucleotides)

GGGTTTCCCT TTCCACTCAT CGGAGATTCA GAGGGATGAG CTGGCACCAG CTGGGACAGG GGTGTCCCGT GAGGCTGTAT
CGGGTCTGCT GATCATGGGA GCGGGCGGAG GCTCCCTCAT CGTCTCTCC ATGCTGCTCC TGCGCAGGAA GAAGCCCTAC

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GGGGCTATCA GCCATGGCGT GGTGGAGGTG GACCCCATGC TGACCCTGGA GGAGCAGCAG CTCGCGAAC TNCAGCGGCA
CGGCTATGAG AACCCCACTT ACCGCTTCCT GGAGGAACGA CCTGACCCG G

SEQ ID NO:2090: (Length of Sequence = 293 Nucleotides)

TTATGTGGAA TACCACACGC CTGGTACAT GGCTGAATC TTCCTTCA TCCTGCTGG GGTCTTCGGG GGCTTGTTGGG
GAACCTCTT CATCCGCTGC AACATCGCCT GGTGCAGGAG GCGCAAGACC ACCAGGCTGG GGAAGTACCC GGTGCTGGAG
GTCAITGTGG TGAATGCCAT CACTGCCATC ATTGCCTACC CCAATCCCTA CACAGCCAG AGCACCAGG AGCTCATTTT
TGAGCTGTTT AATGACTGTG GAGCCCTGA GTCTCCAG CTCTGTGACT ACA

SEQ ID NO:2091: (Length of Sequence = 274 Nucleotides)

CTTTTGAAT GGTCAAACAA TTAAAGTCAA ATGTTTTAAT GGTGCAATTA AAATAAGGT TCAAACATGT TTTCAATATA
TTAATTNCTT TAAAGTCATG TTCAGGCAAG GTGCTGTTA AAAAACCCT ATTAGCTTTG TCACACATG TAAGTTATCA
AAAGTTACCA AGGTAATTTT GACGTTGAAT GCAGCTTTAA ACAATAAAAA AATGGTATTA GGTTTACTTC TCGAAGCAAA
GAGAGCCCC AACCTTGTA ACTAAACATT CTGA

SEQ ID NO:2092: (Length of Sequence = 290 Nucleotides)

GGTACGTAGG ACGCTGGCCC TGCTCTCCG CGGNTCTGG TCAGACACAA TCATGGTCTC CACCACGAGG TGTGCAATGC
CTGGNAGGTT GGTTCGCTCC AGGTCCAGGA GGCAGATCC ATGGGCGATG GTCCTCTGA GCTCCAGAAG GCTACGGAAG
GAGAGCGAGG CAACATGGGG CTTCCCCCAG CGCTCCGTCT CCTCTCCAC GTCCTCTCA AACTTGATCC AGCGGGCCGT
CTCCCGCCAG TGGGGCTCTT GGCTGCGGTC CAGCATCAGC TCGTTCAGCT

SEQ ID NO:2093: (Length of Sequence = 323 Nucleotides)

AGCTACACTG ATACAAGTGG ACCTAAAGAA ACGAGTTCG CTACTCCGGG ACGAGACTCC AAAACCATCC AAAAGGGATC
AGAAAGTGGG CGTGGGAGGC AGAAATCTCC TGACAGAGT GACAGCACAA CACAGAGAAG AACTGTAGGC AAAAAACAAC
CCAAAAAGGC TGAGAAGGCA GCTGCTGAAG AGCCTCGTGG AGGCTGAAG ATAGAAAGTG AAACCCCTGT AGACTTGGCT
AGCAGCATGC CCTCCAGCAG ACACAAAGCA GCCACCAAG GCTCAAGGAA ACCCAATATA AAGAAGGAGT CTAAGTCTTC
CCC

SEQ ID NO:2094: (Length of Sequence = 255 Nucleotides)

AAGGATGTTT TGGTCCCTG CCTCAAGGCC GGCCATGTGG GAGTGTATC TGTGGAGTTC ATTGCCCCAG CCTTGAGGGG
AACGTATACT TCCATTGGC GTCTTTCTCA CAAAGGCCAG CAATTGGGC CTCGGTCTG GTGCAGTATC ATAGTAGATC
CTTTCCCTC CGAAGAGAGC CCGATAACA TTGAAAAGG CATGATCAGC TCAAGCAAAA CTGATGATCT CACCTGCCAG
CAAGAGGAAA CTTTT

SEQ ID NO:2095: (Length of Sequence = 305 Nucleotides)

GCACTCCAGC CTGGGCAACA AGAGCGAAAC TCCATCTCAA AAAACAAAG AAAGAACTN CTGAAGTCGG GGGCTGCTAG
AGGATTTTCA GGAAGGGTCA ACACAGGCT CACTTCCAGT CCTCATTTT CCAGCTCACA GAGTCACCAG AGGGTGAGAA
GCAGAACGTG CCAGCAAAGA GGGAAAAGGC CACAGAACCA CTTINTCTC AATTACAAAG GGTGCATTT CAGAGGAGGG
AATAGGGATG GAGAGGAGGA GAAGACCTGC CCAGGAGCCA GATAAATTCA AAGTCACCAA GATGG

SEQ ID NO:2096: (Length of Sequence = 327 Nucleotides)

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CTAGATATAA CTACCCCTCT CTATTCTCA CCTAAATCCT TATACTGCTG ATGACTTTGG AAAATAGTAC AGGGTTTTTAC
 AGTCTAATCA TGACAATACA TCTCCAGGNT CCTTGAGCCA AATACATTCC TCAGAATACT TTTTTTAAAA AACTGAAAIT
 GATTACTTGT ACTTTGTCAT CACCAAAAAT ATCTGTAGCA AGACATACTG TTCTCAGCAT CCACTTCTAC CATCCTCACT
 ATTGTAACTC ACAGTAGACT ATGCCTCCTA CTTTACTGAA AAGATACAAA CCAATTACCTA GCAATCATTC TTCCACCTTA
 AACATAT

SEQ ID NO:2097: (Length of Sequence = 296 Nucleotides)

CACCCTGCTG AGGTCAATTT CGTCACTGAT GCCTCGGGTC ACATAGGCCC TGATGACCCA GATTTACACAC AGAGGTCAGT
 ACATCGGTCA ACTTTCTCTC CAGGAGGGGC CGGGGCTGGT GGGCCATGCC CACTCCGTGC CACATGCCTA GCATTTCAGAG
 CTTTGTAAAG AAGCCCTGTT CTAAATGCTC AGGTCCCACC CTTCTTGTG AAGAGAAGCC ATGGGCTTCC TGCTCCTGTG
 TCACAGTGTG CCACTTGAAG GGTGGCTCTT CCCCATTCCT CTTCCATGGG GGCCAG

SEQ ID NO:2098: (Length of Sequence = 324 Nucleotides)

ATTGGTTTTN TTGAGTGT TTCTCTTTTT NITTTGTTTT AACATACTTA CTGGGTATAA AGTCATGCAA AGAAAACAGT
 GCAGACAGTA GATCCTAGTG GATGTGCCAA GGTATTCCAC TCAGAGTCAA TCCCAGGGAA AGAGGGAAAG AGGAAAAGAA
 AGAGAGAATG CGAACCCGAG GCTGCAGGAT GAGGCATGAA GAGTAGAAAT TCCCAGTGCT TTGCTGTGGT CATCAGACGC
 CAAGGGGAGA GAGGCAATNA AGACACACGC TCACGGGCC CCCAGAGGTG GGTGGGGGGT GCTGGGGGGC GGCACACAGA
 TATG

SEQ ID NO:2099: (Length of Sequence = 299 Nucleotides)

GAAACCGTCA GTAAGGAGCT CTTTATCTTT ACCTTCCCAC TCCAAACCTA CTGCTAGCT GTTCTTATCA TTGCCTCCTT
 TTTCTCTGTC AAAAAATGT GTTCCATCTT AATGAACACA TTTCATTAAT GTCTTCTTA ATGAAGGACA GTCCCTTTCC
 CTGTGCTGTG AATCCCATAG TAATGACATT AGCTTAAGTT TTCTGAGCAC TTGCTATCTG CCAGTTCCTC CCATGAATTA
 TCTTGCTTAA GCTTTGCAAT ATACCTGTGA AATAGGTGGC AGTAGTTGTC CCACCATAC

SEQ ID NO:2100: (Length of Sequence = 308 Nucleotides)

GGCAGCTTAT TTTGGATTGG TTCACAATGT GGATCAAACA GGAAAATCTG TTATCATCAA CAAGACCAGC AGCACCAGAA
 TTNCCGAGT CTTCCAGCAG TGCAGGCTCC TCAGGNTGCG TGTCCTCCAC CCATCCACCT CTCCAGAGCA CACCCCTAGT
 CTCAGGTGTG GCAGCTGGCT CTCCAGGCTG TGTGCTTAT CCAGAGAATG GAATAGGGGG CCAGGTGTCT CCCAGCAGCA
 CCAGCTACAT CTTCTTCCA CTTGAAGCTG CAACAGGCAT CCGCCTGGG AAGCAATCCT TCTTTAAT

SEQ ID NO:2101: (Length of Sequence = 291 Nucleotides)

GATGATGATT GCATGGGGTT TGATGCTACA CTGGATCATA GAGTGTGGGT TCTTTCTTAC ATGINTTGGT AGATAAATGT
 CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCACAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC
 TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAAATGA CTTAAAGGCC ATAAATTGG TGATATGGCT
 TTGGNGCCCA CGCATAGGAC TTCCACAGAA CTTTTTCAAA GGCAATCACC C

SEQ ID NO:2102: (Length of Sequence = 323 Nucleotides)

GATGATGATT GCATGGGGTT TGATGCTACA CTGGATCATA GAGTGTGGGT TCTTTCTTAC ATGINTTGGT AGATAAATGT
 CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCACAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC
 TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAAATGA CTTAAAGGCC ATAAATTGGT GATATGGCTT

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TGGTGCCAC GCATAGACTT CCACAGAACT CTTCAAAGCA ATCACCAGAA ATTTGATTCT TTCATATTTT ACAACTTTAT
AAT

SEQ ID NO:2103: (Length of Sequence = 270 Nucleotides)

CCTTTCACCTC CCCCGCCCTG GGCCTCTGCT CTCTTGCCCTG GNTTCCTTCT TTTTGTAGGG AAAGAGGGTG GGGCTGCAGG
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT NTGACTNGGC
CAGGGCACAC GTTGGTCTCG GCAGTGGCTG

SEQ ID NO:2104: (Length of Sequence = 367 Nucleotides)

CCTTTCACCTC CCCCGCCCTG GGCCTCTGCT CTCTTGCCCTG GNTTCCTTCT TTTTGTAGGG AAAGAGGGTG GGGCTGCAGG
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT GTGACTGGGC
CAGGGCACAC GTTGGTCTCG GCAGTGGCTG TAAGGTCACC TTCCTTCTC TGGATGCTGG TTTCAACCAT CTATATATGG
CATCCACGCA TGGGATCTGC AAGCTGGAGC CCTCCTACCC GCAGCTT

SEQ ID NO:2105: (Length of Sequence = 288 Nucleotides)

GCAAAATTAC TGAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT
CAGCAAGGGT GTGATTGAGG AGCCCAAGTA GCGCCTGCNC TTGCNTGGTG GATCCAACAC CAGCCCTGCG TCGTGGGACT
TGCCTCANAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAACTC TTTTCTCCC TTGTACTTTT TTTTGACCTG
GNATCTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTG

SEQ ID NO:2106: (Length of Sequence = 349 Nucleotides)

GCAAAATTAC TGAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT
CAGCAAGGGT GTGATTGAGG AGCCCAAGTA GCGCCTGCNC TTGCNTGGTG GATCCAACAC CAGCCCTGCG TCGTGGGACT
TGCCTCAGAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAACTC TTTTCTCCC TTGTACTTTT TTTTGACCTG
GCATCTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTGCA AGGAAAGCTG CCGTCTCTTT TGGCAGTCTT
GATGCAGAGC CTGCACTCTG GCACTCGCT

SEQ ID NO:2107: (Length of Sequence = 329 Nucleotides)

GTGACAAGCT CCAGAAGCCC GCNTCGCAAC ANCCAGGAGG GCCAGGCCAC TCCAGGCAGG AGGCAGTGGG CTGGCAGCCA
CCCTGGGCAC AGAAGAGCAG ACGCAGACAG TGCTGGGCAA CGAGGGGCTT TTTTCATGGG CCCGCTGCC CTGTCCCTCC
CCCCAGGTCC CCACCTTCTA GGGTTAAAGT GCAGCTGGGA GGGAGGAGGC AGGCAGAAAT NGGGAGCTAG AGAGAGCCCA
AGTGAACCCT GACTGTCCAC GCAAGTCCCA TGTCCTCTC GTCTGGAGT TCCTCGAGGT TCAGCGAGCC CATCCGCTT
AGGGCCTCT

SEQ ID NO:2108: (Length of Sequence = 261 Nucleotides)

TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC
TGAGCCTCCT GACTTCCGGT CACTGGATAC TCTCTGATG GCTCATGATT TAAACTCTGT AGTCACTGCT GGCTTGGAAA
CCTCTAACTC TCTCTGCCCTC TTGACAGTGT TCCCTCAAGG GAGTCCATTA GCCAGGACTA GGTACATGC CCGTGTGTTA
GCTGTGAGGG ACAAGGCAGA G

445

SEQ ID NO:2109: (Length of Sequence = 329 Nucleotides)

TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC
TGAGCCTCCT GACTTCCGGT CACTGGATAC TCTCTGTTAG GCTCATGATT TAAACTCTGT AGTCACCTGT GGCTTGGAAA
CCTCTAATC TCTCTGCCTC TTGACAGTGT TCCCTCAAGG GAGTCCATTA GCCAGGACTA GGTTCATGTC CCTGTGTGTA
GCTGTGAGGG ACAAGGCAGA GAAATAACTG CCCAAGTTCA GCTTCCATA ATGTTTGGGG GATGCTATGA CTCAACTTTG
ATCTATTTT

SEQ ID NO:2110: (Length of Sequence = 271 Nucleotides)

GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCAGTTG CCCAGGGCCA CCTGCCCCTG
AGGTCCCTGT GTGGCCCGCC TGGCTTGGCA GCCCTGCCCA CGCTGCCCC GCAAACAATG GTGTGTGCGT TTTTACAGCC
CTTTTTAGGA ACCCAATATG GGCATAAATG TAACACCTGT AGCGGGGGCA GATTCTCTGT ATGTCAGTT AACAAATTAT
TGTAAATGTA TTTTTTTAGA AATCTTAAAA T

SEQ ID NO:2111: (Length of Sequence = 315 Nucleotides)

GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCAGTTC NCCCAGGGCC ACCCTGCCCT
GAGGTCCCTG TGTGGCCGCC CTGGCTTGGC AGCCCTGCCC ACCTGCCCC CGCAAACAAT GTGTGTGCGT TTTTACAGC
CCTTTTTAGG AACCAATAT GGCATAAAT GTAACACCTG TAGCGGGGGC AGATTCTCTG TATGTCAGT TAACAAATTA
TTTGTAAATG ATTTTTTTAG AAATCTTAAA ATTGCCCTTG CACTGAAGTA TTTTCATAGC TGTTTATATC TCTTT

SEQ ID NO:2112: (Length of Sequence = 275 Nucleotides)

GCAAGANAGA CCAAAACCTA ACCTGAGTTA CAAGAAACAA GACAGTAATG GCTATAAAGG GAGTGACCAG GAGCAACTGG
GACACTCCTT TACCTCCCAT ATCCAATGTA TGINTTTCAC AGAAAAACAA CAAAATTAAC AAATTCACAA AATACAACAG
CTAGAATTAC AAAATCCATT CATCCAAGGG TGGTAGAAGG CAGGATGGNA AGGTGGAAGG GTAAATNGCA CAGGGAGAAA
AACAAAGTGT TCCAATCAGT CCAGGCACAG GGAAT

SEQ ID NO:2113: (Length of Sequence = 227 Nucleotides)

GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGGT AAGAGACAAC
TCCAGTGCAG TGCCAGGTGG GCAGGCTCCC ACTGTTCCTT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGGACACA
CTCGCAGGGC AGGGCATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGT

SEQ ID NO:2114: (Length of Sequence = 339 Nucleotides)

GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGGT AAGAGACAAC
TCCAGTGCAG TGCCAGGTGG GCAGGCTCCC ACTGTTCCTT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGGACACA
CTCGCAGGGC AGGGCATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGTGGG GCAGGAGGGA
AGGCCAGTTC GTNGGCAGGC TGAGGAGGGA ATATNACCCC CCTCAAGTCC CCAAAGTGGC AGGCAAGTTA AGGGGCCCTG
GATGAGGTGG CCCCTCATG

SEQ ID NO:2115: (Length of Sequence = 262 Nucleotides)

TGGAACACAA AATTCCCTGT NTTAACATG TACATCGGG GCCTAGCTGC CCTTGAGGAT GTCCTAGTTA CACCCTCTCT
GATACCTGTG GAGTTTAAAG ACCATTCTTA CCGCTGTGTC CCTTNGGAGG GGGTGCAGTG GAAGCTCTTA AAGGGGAATG
CTTGCTCTGC CTCTGTGGCT TTTTGTGTGG GAAAGGGAGT TNGGATTNGA GGATTTAGAT TINAGGTCAT GATGTCAGAG
CACACCAGGA ACTCCCAAGG CT

SEQ ID NO:2116: (Length of Sequence = 153 Nucleotides)

AAGAAGCGAA GAGGATTGCT GAGCTGGAGC AGCGCAANAC ACGTGCTGG TGACAGAACT CAAAGCCAAG CTCCATGAGG
AGAAGATGAA GGAGCTGCAG GCTGTGAGGG AGAACCTTAT CAAGCAGCAC GNGCAGGAAA TGTCAAGGAC GGT

SEQ ID NO:2117: (Length of Sequence = 231 Nucleotides)

GAATATAATG TGTATCTNCA AGGNTGATC CACCTTNC CATTCTNTGG AGCTCAGAGA TTCTTGGGAG CTGAAGGTCT
TCTTAATGTC AGATCAGCAA CCCAATCTC AGGCAGCTCG GATTGCTGC TCTGATCTN CCGCTGGCCA ATGTAAAACC
AGACGCAGGC GACCCAGTGC GCGACAGGGC GAACACGGCC ATGAGCAGTG TCAGCACCAC GCGCTGTAC T

SEQ ID NO:2118: (Length of Sequence = 309 Nucleotides)

CGGGAAAGAA CAAATTGGAA TGGTGGGGGA TATGGGTGTG TGGTGGGGGC GGGGCAGGAG GTCTCCGGG GTCCAGCATG
GGTGGGGAGT GGGAGCAGGA CAGAAGGTGG CCACGTCACA GGGAGCTGAT GCTCAGCTCA AGGGGAGTGT GAAGAGGTG
GCAAAGAGCT GGGGAGCCGG GCAGAGGGAC AACACTGACT NAGGACATTN CAGTTGGGAA TCAGAAAAA AGGGGCAGCT
CAGGGGCATC TGATCTGCTT CATTTTGTAA AAAGAAACAG AGTAATGTAC AAAATTCTGG ATATCTTCT

SEQ ID NO:2119: (Length of Sequence = 308 Nucleotides)

GGTAATCGTT GAAGATTACC AAAGTTTAT TTGGAATGAC ACAGCACTGA AACATAATT GTTACAGATG ATTTGTGGAT
ACAGCATACA CCATCTATTT TACTTTAGAA CAATCTGTGA AGATGAGTTG CATAAATAGA AAGAGGTGGA AATATAGAGG
AGCTGTTTTT ATAGTGTCT TTTGGGGTA GATGAATATG CCCCATCTTT CTACCCAATC TCATAAAGGC AGAAGAGAAG
ACTGCTTAGC TGCCCATCCC AACTAGCCTA CTTCCAGCCA CAGCGGCTGG ACAGTAGAT AAATCAGG

SEQ ID NO:2120: (Length of Sequence = 237 Nucleotides)

CCGCTCTCCT GACGGGAGCC CACTAGGGGG TCTCTTTTCA TCTTTGGTGT GGCTTACCT CCCACCAAAG AGATCCGAGG
CTTACTCTTC TCTCTCTGGG ACCAGCATGA CCCAGGAGTC CTTCCAGGAG AGCTCTGTGA AGGAGCTGAG GCGGCTGGAG
GACCAGCTGG CCGGCCTGCA GCAGGAGCTG GCGGCTCTGG CACTGAAGCA GAGCTCGGTG GCGGAAGAAG TGGGCCT

SEQ ID NO:2121: (Length of Sequence = 224 Nucleotides)

GCGTCAGAG GCTGAGGCCA GAGAGGTAGC AGCGGAACCTN ACAGGGAGGC CAGGGGCAGA GCTGACCCTG GAGAGGGATC
CTNATGTCCT AGACACATGG TTTTNTCTG CCTGTTCCT CTTTNTGCC CTGGGCTGGC CCCAAGAGAC CCCAGACCTT
GCTCGTTTCT ACCCCCTGTA ANTTTTGGAA ACGGGCAGCG ACCTTCTGCT GTTCTGGGTG GGCC

SEQ ID NO:2122: (Length of Sequence = 202 Nucleotides)

CAGCTGCAGC TTCCAACCAA GAAAACCTCA AAGCATTAGG GAAGGAGCAG GTGTGGGGCT GGGGTGGGA GAATCCCTA
AGCTCCAGGG CCCAGGTCT AACCTGAGAG GTCGGGGCTG CAGGAAGCTG GGGGAGGCTC CCGGGGCTGG GGAAGAGGA
GCCTGCCCCC AGCAGAAACA GCAGGTCTCA GCGGCTACAT GT

SEQ ID NO:2123: (Length of Sequence = 359 Nucleotides)

ATTCTCCTCT GTTCTCTTGA TGTGTAGGGA AATTTGAAGA ATGACTCTGA TAAAAATCTA AAAGAGAAAC ATOGAATCCT
AACTGGCTGT GTGACCCTAA AACCTTACTC CGTCTCTTTG AACCTCAGAT TTCTCAGGGC TTGGCACATA GCAAGCATTT
CATACTCAGA AGCTGGTACT ATTACTGTTG TGTTTTGTGG GGGGAGGTTT GTTTGTTTTG TTTGGAGACA GGATCTGGCT

TTGTGCCCCT GGCTGGAGTG AAGTGGCGCC ATCATAGCTC ACTGCAGCNT CGCCCTCCTG GGCTCCAGCG ATCCTCCCGC
CTCAGTCTCC CGAGTAGCTG GGACCACCTG CGGATGCCG

SEQ ID NO:2124: (Length of Sequence = 233 Nucleotides)

GAAACGCCGT GCATCTCTTG TCTGTGGCA GCGAGCACAT CGTNTGGAGA CACGAGTTTC TAAGCAGCTG GCACGAGGGC
TGCTGACGGC ATGGGTCGTG CTTCAGGGTG GCAATACCTC TTAGGAACIT AGGGCAGGAA GCAATACTTC AGCATTGAAT
GTGTGTAAAT AGTTGCTTG AGTTGCAATT GCTATTINCT TCTCAGTCCC AGCTCAGATC GAATTATATA TCC

SEQ ID NO:2125: (Length of Sequence = 241 Nucleotides)

GCCATGGCIT TTGGTCAGGT TCAGGGGGGC TGAGGGGGTG CTCCTCCCT CCCCCAGGC ACTGACACAT TGAAAGGAAG
CAGAGCAACA ATGACACAGC ACGGATGTGG GAAAGGGGAT CCCCCACGG GGCAGGATGG TCCATCTCAC CGGGGTCTCA
CCAGGACTCC CCGCTCCAC CCAGGGCCAG CACGAGCACC TCCCGTTTC TCCCAGTGC AGAGCGTGGG GTGACAGGAG
T

SEQ ID NO:2126: (Length of Sequence = 275 Nucleotides)

GTGTGCCCTC TTGCTGTGTC TTACTTCATA AGGAGTTGTA TCTTCCCACC TGCATTTCAA TACTGCCGGT TAGGACCTAA
GTAGAAGAGC AGTAAAGGCT GATTGACACA CAGGGGGATG GAGTTGGTCC TTGTCCATTC TCTCACCCIT GCTGTGCATG
TATCAATCCT TATCCAGAA GGTACTATT AGACTGTATA GACTGATTTA GATTACATAC TTTAGAGGAT TAAGGAAACC
ATAGAGTTTG GGCCTTGAA CTGTTACTGC CTTGT

SEQ ID NO:2127: (Length of Sequence = 296 Nucleotides)

TTCAGCCTTA TCGAAACACA TGAAGCAAAA CCATTGAAAC TGTATGTGTA CAACACAGAC ACTGATAACT GTCGAGAAGT
GATTATTACA CCAAATTCTG CATGGGGTGG AGAAGGCAGC CTAGGATGTG GCATTGGATA TGGTTATTTG CATCGAATAC
CTACACGCCC ATTTGAGGAA GGAAAGAAAA TTINTCTTCC AGGACAAATG GCTGGTACAC CTATTACACC TCTTAAAGAT
GGGTTTACAG AGGTCCAGCT GTCCTCAGTT AATCCCCCGT CTTTGTACC ACCAGG

SEQ ID NO:2128: (Length of Sequence = 322 Nucleotides)

GCATGGGAGG GAGGAAGAGA GGTITGGGGT GCGGTGGCAG GTGATATAGG GAAAGGGCTC ACGTTTCAGA ATCTGTGAAC
AATTCATTT TTATCAGAT AGCAGAACAA CTACAACAGC AAAACCTAGA ACATCTCAGA CAGCAGCTCT TGGAGCAGCA
ACAGCCTCAA AAGCCACTC CTCAGGATAG TCAGGAAGGA ACCTTTGGGT CAGAGCATT AGCGTCACCA TCACAAGGGA
GTAGTCAGCA GCATTTTCTT GAACCTGAAG TCAATTTGGG ATGATTCCAT AGATATTGAG CAACAGGATA TGGATATAGG
AT

SEQ ID NO:2129: (Length of Sequence = 222 Nucleotides)

TTTAGTGGGT CTGGGGTGGG CGCGGCCCC GGCTAACGGG GCGGGTCTCC TCCTCTAGGC GCAGGAGTGC GCGGTGCTCT
CCAGGCCTCC CCGGCTAGGT GGAGCGTGAC ACGCAAAGC ACACCGTCT ACCGAGGCGG GGCCAGGCG GCACCAGCCC
CTCCCCAGAT GGAAGTGCCC GGCAGACAGC TGCCCAAGAC CTCACAGAAC AAAGATGGAC AT

SEQ ID NO:2130: (Length of Sequence = 191 Nucleotides)

GTGGGATGCT TTATTTCACT GTGGCGGGGA GGAACCTGG ACAGGGGGCG GCAGGCGGGG TGGNGGCTG GCACTCAGGC
GGGACTAGG CAGGGGAAGG GCTGCCCCCA GGCTGTGTA GGAGAACTN AGGCCAGCCC TGGCGGAGAC CTAGCCAGC
GGGTAAGGA GGGTGGGGGA AAAGTGGTC T

SEQ ID NO:2131: (Length of Sequence = 280 Nucleotides)

CTGAGTCTTG TCGATCCCGA CCAGGAAGAG CAGCTCAGCC AGGAAGAGGT TGATGCACAG GTTCTTGTTG ATGGTGTGTC
GGTCCGTCTG CAGCCCCCGC AGAAGCAGAA GGTGGAGATG CAGATGGCCA AGCAGACCAG GGAGATCACA ATGCCACCCC
AGGTGATGAC CGACAGCAGC AGCTCGTTGA TCGGGCCCTG GTAGATCTCA CCGTGAGCCA TGAGCACAGC GAAGTTGGTG
AGGTGGCTGC AGGCACACGT GGTATGGGTC TTGTGGACT

SEQ ID NO:2132: (Length of Sequence = 201 Nucleotides)

ATCCCCACAC CATGCGCTGC TCCTCCCATG GGGCTTTAGC TCCCTGACC ATCTGCTCAT GTAGCCTCTG ACTGGGCGCA
CAGTGGTGCA GGAGGAAGGA CCGGGAACCC TGTGTGGCTT TGGGCAAGCT GACAAACCG TCTGGAATC AGTTTCCCCA
GCTGTGAAAT GGGGCCAGTC CCCATGCCCT GCTGTCTCC T

SEQ ID NO:2133: (Length of Sequence = 180 Nucleotides)

GATGAAATG TTGTGACCAG AGGCTTGCCA TINCCTAACT CTATTTGCCA GAGGAGCAAT AGTTCTGTAT TCGCTAATTT
TGTGTTACA GAGACTTTAA GGAACATGAC TGTGGGAAT AACAGAATT AAAGGTATTT ATTTACTTNC TCTATATGAT
TGTAATATTA TACCCTACT

SEQ ID NO:2134: (Length of Sequence = 302 Nucleotides)

ATGAACAAAC GGGACTATAT GAACACTTCG GTACAGGAGC CCCCTCTTGA CTACTCCTTC AGAAGCATCC ACGTCATTCA
AGATCTGGTA AATGAGGAGC CAAGGACAGG ACTACGACCA CTGAAGCGTT CAAAGTCGGG GAAATCACTG ACCCAGTCCC
TGTGGCTGAA TAACAATGTT CTCAATGATC TGAGAGACTT CAACCAGGTG GCTTCACAGC TGTGGAGCA CCCAGAGAAC
CTGGCCTGGT TCGACCTGTC CTTTAATGAC CTGACTTCCA TTGACCCTGT CCTAACAACT TT

SEQ ID NO:2135: (Length of Sequence = 291 Nucleotides)

TCTTACCAAT CTGACATTCA CTATCAACCA CTCTTGACA CATGTCATAG AAAAGTGACA TCTCTTTCCC TTCAACCAAT
ATATCCTCCA ACAACATCAA CCTCAACAGG TAGCTAGCAT TGTCTTCTGT TGAAATTTAG AGCTGGAAGA AAGGATTTCA
CAATCTCTCT GTGGAGACCC AGGAATCCGT TACCTTCTGG GATTTTAGAG AGTGTGGAGA GAGATGAGCA GGCAGTGAGC
CGGGGACCAA CTCCGATAAG AATATGAAGT CAGGAAGTGA GAGAGGAAAC G

SEQ ID NO:2136: (Length of Sequence = 282 Nucleotides)

GCTGTACAAG GTCTTTTCT TTGTTGTCAT GGTGATTTT GTACATTTCA GCATTTGCAT CATAAAAGG GGGGAGCAAC
AGCCATGGCT TTGGTTCAGG TTCAGGGGGG CTGAGGGGGT GTCCTCCCC TCCCCCAGG CACTGACACA TTGAAAGGAA
GCAGAGCAAC AATGACACAG CACGGATGTG GGAAAGGGGA TCCCCACGC GGGCAGGATG GTCCATCTCA CCGGGGTCTC
ACCAGGACTC CCCGCTCCCA CCCAGGGCCA GCACGAGCAC CT

SEQ ID NO:2137: (Length of Sequence = 322 Nucleotides)

GAATTGACAA CATATTGCCA AAATCTTAGT GGATTTTGCC AACACTATTC TGCTGATAGG AAAAAAGAAT CATTAGCTA
CTTTCCAATT TAGCCACAAA ATAGGCTCTT TTTTCTTCAT TACTACTTTA ACCAGTATGT TAATACTGAA AATAGGTATA
AAGAAATCAC AAATAACCTT CTTCTGTTG AAGGAAATTT AAAATAGCAC ACTTAAATTG AAAGTNAAGG GAACTTTAAT
TCACTACTGT AATTTTAA TGTCTGTATC ATGTAGTGT TGCACAGTTT TAACCTTAGT TTACCATCTC TTACTCTTA
GT

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SEQ ID NO:2138: (Length of Sequence = 305 Nucleotides)

ATGCTGAGTC GCAGTTCOGA TGTCTTATG CTTCATCAG CAAATCTCAA TTGTCAAGA TTCATGACAG ATTCTTCCCC
AGCGTTTGGT TTAATTGGAG GGACTTTATC TCCAGGCTG CATGACTCTT CGATGCTCAG GGCACATGCC CGACCAAAGA
CAACCAGGTC CAAGAGOGAG TTINCCCCGA GCGGTTGGC ACCATGTACC GAGGCACAGG CGGCTCCCC ACAGGCGTAC
AGGCCGGGCA CAATCTGATC CTGSCCATT CAGTGCCTCA GGACCTGCCC CTGTGTAGTTG GTGGG

SEQ ID NO:2139: (Length of Sequence = 263 Nucleotides)

CGGCCCCCAG CAACAGCTTC AGCCCTCTCC ACCAAGCTTG CCATCAAGGA GATTGCACCA CTGCACTCCA GCCTGGGTGA
CAGAGTTAAG ACTCTCATGG GGACACTACT GTTCAAAAGG CCCTGGCCAA ATAACCTCCA AATGAAACAC TCAACCCAAG
GATGTTTTCA GCCCACTGTT AGTGAAGCTG GGTGCAGAAT GCAAAGCTC TAAAAGGAGA GGATACAAAG TCAGGTGAGT
AGGGGCCATT GGCAATGCTC AGA

SEQ ID NO:2140: (Length of Sequence = 255 Nucleotides)

CTGCTTCANT CTGCGCCCT CAGCTGTGGC TTCCGGGCAT GCCCTGTGAC CCCAAGCCGC AGGTACAGGA AAGAAGTTTG
TGCTGGGGGA CTCAAAGACC CAGAGGTTAA TTAACAGGAA CCAGGGCCAG GGCCTTCAT CTAGAGGTCA GTGGAGTCTC
CAGGGCACTC ATCACTGTGG CTGGGAGACT ACAGTGTCTC GGCTGCGGAC TTGTGGAAGA AGAGGGGGAA GGATGGGAGA
AGGGGTGACT GGATG

SEQ ID NO:2141: (Length of Sequence = 355 Nucleotides)

TTTAATTAAA TACCACTTCA TAATGTIATT TGCACCTAGT ACTTTTTTTT TTTTAAATAA GACATGCCAT AAGTCGTGAA
GTTAACAAAA TATAAGCATC CGCACAGAAT ATATTCTAAG GTGACTTCAT TTACACCGCT TCTCAGAGAA ACACACAAGT
AACCTTTTGT CTGCCATCA GCCAGTGTG AAACAGCTTT GGAATTCACA TGGAAGGCTG CCGGGCTGGT TCCCCAACAC
TNGCCTGATG GAGTCCTGTA TCCGNACCGT GCGTCAAAC TGGCTGGTTT CCACTAGAAA AGCAATGGAG AGTCAGCTCT
CCCTTCMTA CCCAGCGTTC AACTCCACAC TGCAA

SEQ ID NO:2142: (Length of Sequence = 391 Nucleotides)

CTGCTAAGTG CCATGAGACC TTAGCAGAGG CTGTGGGTGC CCCGCCCAT TCCCTCCACT CACTCTTCCT TGCAGGTGGA
CCTGCCCTTC TTTGCTGAGG CCTTCTCTG CCTCCAGAGC CTGCTTGGTC CTCAGGCTGT AAGTGCAGGC AGAGCTAATG
TCTCTCCATA GCTGCCCTCC ACCAGCCTGC TCTGAGACA CCTGCTGGCC AGCAGCCTGA AGCAGAATCC TTTACTCAGA
TTCAGCCGCA CAGATGCTCA CTGCAGAGAT CTCCAAGENC TGTGGTCATC CTTGAGCCCA TCTCAGATTT GTGTGGATAG
GGTGTAGAG AACATGGAAT CAGCTGGATA GAGTGGTTCA TGCTTGTAAAT NCCAGCACTT TTGGGAGGCT T

SEQ ID NO:2143: (Length of Sequence = 326 Nucleotides)

GATGCAGAAC AGCTTCTTGC AGAAGCACCT GCTCCGGCAT CCAGCGCTGC CTGGAGGCAG GAAGGAGAGG CAGGGCAGGA
CACGCTGGTC TGAGATGAGG GGGAGCCCCA CGGGCCCCAG GCAGGCTAGA GGAGGCACAG GCCCTGCCAC GGCCAACTCA
GGTCAGCCAG CCTGAGGCTG TGGCCTCCAA AGGGTCTGGG CGCACCCCC AGGTGCGAGG TTNTGAGGC CAGCCAACTT
GCAGAGCACT CGCGCGTGG GTGGGCTGAG TGGAGGTGCC TGGGAAGCTG CCTAAATTCA GAAGCCTCCA CTTGCCATGG
AGACTG

SEQ ID NO:2144: (Length of Sequence = 357 Nucleotides)

GCACCGGGCC CCAGGAGCCC ATCAGTGACA GAGTGCTCCA TGATGATGTC CTCCACCGG GTGATGTACA GCAGGCTCAN
AGCACCCCCA GGAAGTGGGA NAGCAGGATG CCCAGGAGGA TGCCCGCCAT GATGGTGTAG TTGTCCATGA ACCAGATGAT

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CACGGCGTTG GTGCAGCCCC GCACGTAGAT GACATCCTGC AACTGAAAC GTCCTTGTC GATAGTTTIN TAGCCACACA
TGGTGTGAC AACTTCTGTC GTGTCTGA TGCAGCAGGT GTAGGGCACC CCACAGGCCA GGGGTCCAGG GGCATGACAG
TCGTGCTACT GATTCTTGCT CCAATCTCGG TAGTCT

SEQ ID NO:2145: (Length of Sequence = 420 Nucleotides)

CGCCAGGAGC TGCTAGCCAA AGCATTGGAG ACCCTACTGC TGAATGGAGT GCTAACCCCTG GTGCTAGAGG AGGATGGAAC
TGCAGTGGAC AGTGAGGACT TCTTCCAGCT GCTGGAGGAT GACACGTGCC TGATGGTGTG GCAGTCTGGT CAGAGCTGGA
GCCCTACAAG GAGTGGAGTG CTGTCAATG GCCTGGGACG GGAGAGGCCA AAGCACAGCA AGGACATCGC CCGATTCAAC
TTTGACGTGT ACAAGCAAAA CCCTCGAGAC CTCTTTGGCA GCCTGAATGT CAAAGCCACA TTCTACGGGC TCTACTCTAT
GAGTTGTGAC TTTCAAGGAC TTTGGCCCAA AGAAAGTACT CAGGGAGCTC CTTCGTTTGG ACCTCCACAC TTCTGCAAGG
CCTGGGCCAT ATGTTGCTGG

SEQ ID NO:2146: (Length of Sequence = 390 Nucleotides)

CCCAAATACT GTTTCCTCAA CTATGTCGGG CGGCGAAGC ACATGCGGGT NATGGCTGGA GCCCTGGAGG GGGACCTCTT
CATCGGACCA AAAGCAGAGG AGCACCGGGG GCTGCTGACC ATCCGCTACC CCATGGAGCA CGGCGTGGTG CGAGACTNGA
ACGACATGGA ACGCATCTNG CAGTACGTCT ACTCCAAGGT TCAGCTGCAG ACCTTCTCGG AGGAGCATCC TGTGCTCCTC
ACGGAGGCCC CGCTCAACCC GAGTAAGAAC CGGGAGAAGG CGGCAGAGGT GTTCTTTGAG ACCTTCAACG TGCCGGCCCT
GTTCATCTCC ATGCAGGCTG TTCTCAGTCT GTACGNAACA GGACGCACGA CAGGAGTGGT TCTAGACTCA

SEQ ID NO:2147: (Length of Sequence = 219 Nucleotides)

TTTGTGGTTG GAGAGAACT GGTGTTCTGC CCGGCTCTGC TTGGTCACAG ACAGCTCCAG CAAGAGCAGT TGTAAAGT
GCCAAGCGTG TGTATCACTG TGACAAGCG TTTGCTTACT GCCCTGTTCC CTTCNAGCCA AACCAGCTGA TGAAGAACTG
CTGCCAGNG GGTCTACAG CAGGTCAAA ATGACCTAGT TTCAATTTAA GCAGACAGA

SEQ ID NO:2148: (Length of Sequence = 353 Nucleotides)

GAAATCTTTA TTACAAAAT ATTTTGCAAG CCAAAAAGTT TAAGTTGCAA CTATATACAA AATGGGGCCT GTTCTCTTCC
CAGCAGTCTT AAAATAAACT CCTGAAACCA TGCTCCTTCC GCAGGTGGT TCGACCTCTT CCTTTCTCTG GGGTTCAATA
CACAAGGTAT GTGGATTCTC CAGGTGCGCA GGCTAAAGCT AAAGCTATAC ATCTTCTTGG GCCTTATTCC CTTATTTCCC
CCTCCAAGAA TTAATAAATA AAATAAATG AAAATGGCAC CAAGAAAACA TTCTTTTAAA ATACTGAATG TGTGTGTGCA
TGCGTGTGCA CAGTATGTCC CTGTTCTCTG GGT

SEQ ID NO:2149: (Length of Sequence = 394 Nucleotides)

GGGGAGACTT TGGGCTTTNN TCATGACTGT TTGGGTCGAA GGTAGCTCAA GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT
GTGTGTGTGT GTATGTGTGT AAAGTGCTAA GAACTGTGCA TTGACATCCA AACATTTCTT GTACAAAATT TCCCTAGCAA
AGCAAACCTG CTTTGACTTA ATTTATTGT TAAATGTTGC ACTTTGTTTA TGTATGTTT GTTTTGGTG GGAATAAGG
AGAGAGAGGA CGACAAATTC TATTGAAGTA TTTATTTTGT GAAGATGGCA ATTTTGCATT TGTTTAAATA TTTTTCATTC
NNTTAATTTT GTTATCAGTG CCAGCCCAAN ATACCTGCTC TACCATTAAT TTGCGGGCCT GATAAAAAGG GTCC

SEQ ID NO:2150: (Length of Sequence = 200 Nucleotides)

ACCTCCCTGG GCCTCGGAGA CGCTGACAGC TGGGACGACA GCAGCTCCGT CAGCAGCGGC ATCAGCGACA CCATAGACAA
CCTCAGCACT GATGACATCA ACACCAGCTC CTCATCAGC TCTTATGCCA ACACACCTGC CTCCTCTCGA AAAAACCTGG
ATGTGCAGAC TGATGCTGAG AAGCACTCAC AGGTGGAGAG

SEQ ID NO:2151: (Length of Sequence = 369 Nucleotides)

GTGCGCCCCA GTCCTTCTGA AACCTGATAT CACACTTCGG GCACTGTCCC CTCTACAGTC AATCTGTGTT TTCAGAAGTG
GCCCCAGGTT CACTCGTCTT ACAGCAGTCC TAAAGAGCCG GCTGCCCTTT CCTAGGCTT CCTTGCTCTT NAGGGCTAAA
TTCCAGCCCT CCTACCCAG TGCCACTTGG GTAAAAATAC TCTGCTCTC TCAGTTTGC TAATAAGCCC GGGCTCCGAC
TACCACCGTT CGGGGGAAGG GAGCCCCITA CCGTCATTGC TGGGTCCGCT CCGGGAAAAC ATGTGCCGGA CCTGACTTGT
GCGGCGGCAT CTTTCCGGAA ATGCCGTTT TGTTCCTTC TAAGGGTGT

SEQ ID NO:2152: (Length of Sequence = 312 Nucleotides)

TTCAAAACA AATTGTGGGA GAAACACACC TTCCAGCAA TAGAAAATCT CTATAAAGTG CATTTTGCCT GCAACCATCT
CTTCCCCATG CTGGCCCTTG GGTGAGATT TGAGGCACTG TTCCAGGGA GCCCTCAGG CCACCTGAGC TGGGAGAAGG
GAGGCATGAA GCCACCATGG AGCTCCAGGC TACTGGACAT ACCCTCTCTA CCCTGCCCTT CCTTNTTGGC TCCAGGAGTG
CACTGCCTGA CTCCACTGGC AGGTTGATCT GGAACGGGC TNGGCATGCT AGGGATGGTG GAGAAGTAGG CG

SEQ ID NO:2153: (Length of Sequence = 325 Nucleotides)

CCCAGACCCA GAATGTAAAT NAGGCCAAAA TGCCACTTC CCAGGCTGAC ATAGAGACCG ACCCAGGTAT CTNTGAACCT
GACGGTGCAA CTGCACAGAC ATCAGCAGAT GGTTCAGG CTCAGAATCT GGAGTCCGG ACAATAATTC GGGCAAGAG
GACCCGAAG ATTAATAACT TGAATGTGA AGAGAACAGC AGTGGGGGAT CAGAGGGGG CCCCACTGGC TTGAGGGAC
CTGGNGGTCT GCACCACTTC CAGTGACCAC TTCAGAACCC ACCINGGNC ACCCCCCAAT GTGCTCTGGC AGACGGCATT
GGCTT

SEQ ID NO:2154: (Length of Sequence = 326 Nucleotides)

ATCATTTAAT TAACATCTTT AAATGAAACA CAGTTTTCTT CATGTGCTC ACTCAGGCTT CAGGGCAGAG GGAATGGATT
TTTAGACATA TCAAGACTC AAAAATTTAA AGAAATATAT ATATGTATAT ATATACTTCT AACATTTTAT GGAAATTAAA
AATCAGAGGC TTTTGGTCTC TCCATTTACT CTAGGTCAAG CTCATTTACC CCAGAGGACA AAGAAGGGCT GCTCTTCTA
GACCTCCCT TCTCCTTTGT CTNTGTCCC ACCCAGCAGG GAAACAAGCT CAGAAGGATC CTAACAGGAT AGAGTTTCCA
GTAAAT

SEQ ID NO:2155: (Length of Sequence = 317 Nucleotides)

TGGATGAGGA GACCTGAAC ACACCTGCT ACTGNCAGCT GGAGCCCAGG GCCTGTNACA TCCTGCTGGA CCAGCTGGGC
ACCTACGTTT TCACGGGCGA GTCTATTCC CGCTCAGCAG TCAAGCGGCT CCAGCTGGCC GTNTTCGCCC CCGCCCTCTG
CACCTCCCTG GAGTACAGCC TCCGGTCTA CTGCCTGGAG GACACGCTG TAGCACTGAA GGAGGTGCTG GAGCTGGAGC
GGACTCTGGG CGGATACTTG GTGGAGGAGC CGAAACCGCT AATGTTCAAG GACAGTTACC ACAACCTTGC GGGCTCT

SEQ ID NO:2156: (Length of Sequence = 372 Nucleotides)

CTTCCAGCTG GCAGCCAGT GGCCACCCA TGTCAGCAC TTTCCAGTGG GACTCTTCAG TGGCAGCAAG GCCACCTGAG
GCCCTGTNTC CCAGCCACTT TCCCTCCTGG CACTGCCACC AGCCTCACC AGTGGCGCGA TCTCGGCTCA CTGCAGCCTC
TGCTCCCGG GTTCAAGCAA TTNTCTGCC TCAGCCTCCT GAGTAGCTGG GACTATAGCC GCGTGCCGCC ATGCCAGCT
AATTTTGTGA TTTTGTAGT AGACAGGATT TAACTATGTT GGCCAGGCTG GTCTTGATT CCTGACCTCG TGATCCGTNC
TCCTCAGGCT TCCAAAAATG CTGGGATTAT AGGCATGAGC CACCACAACC GG

SEQ ID NO:2157: (Length of Sequence = 351 Nucleotides)

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CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA
GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC
CAGCGTCCCC TCCAGTCTGC ACGGGCAGT CCTCCTGGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC
CCTCTATCCC TCCCAGCACC TACTACATCG NCCINCACAT CCCTGATTCC TGTGTGTATG GAAACTINTG CCAGAGATGG
AGGTTCTCTC GGAGTATCTG GGAACGTGTC C

SEQ ID NO:2158: (Length of Sequence = 280 Nucleotides)

CAGCTCCTGA GGACCGCTGC AGTGATGACA CAGGACTATT GCATCAGCAT CGTGCTACA GGAATCAGA GCTCAGCCAG
GAGAGGTCCA AGAATGACAG AACCATGAGC ACTCCTACCA AAATCAGCT CTGCTCAGCC AAATCAACAA TTCAACCCAA
CAGGNCAACT CCTAACACAT CCCATCCAGA CAGACATTAG AGGCGCACAG CAGATGAACC TCCTACTTAC ACTGTCCAAG
GAAGCTGGAC TATCAATTCC CAGTAAAAGT GGGGGAAGG

SEQ ID NO:2159: (Length of Sequence = 342 Nucleotides)

CTGTGCGTT TCTCCTACCA GATTGTGCAT GCCTCCTGTG GGCAGAGCCT GTNCTGACTT GCTCCTGGGT CTCCAGCATC
ACCCAGTCTG GAGCTGAGGA CTTGGGTACC TACAGATTTT CTTCACACT GTCAGAAITG AGATGAAGGA AGCCAGAGA
AATCAAGTAC CCTCCACCAG GCAGAGCAAA GTCTGGGTG CCCAAAATCC AGGGAAGGCA AGGGCTGGGG GTACAAGCAG
AGGATCTGAA GAGGTATATG AGAGTNGCCA GCACAGACCT GGCATAAGCT TGGTGCTCAG TGAAGGTTAC CTGATGTTGC
TGGGCACCAG GGGTGATGCA GT

SEQ ID NO:2160: (Length of Sequence = 376 Nucleotides)

ATCTTAAGAC ACATATGGAA AACAAAGGG TAGAAGTTAG TAACTACAA GAATATAAAT TGGAGCTAGA TGAAAAGGCA
GTGCAGGCAG TAGAAAAATT AGAAGAAATC CATTTCACAG TTAGTTTTT AAATCAGGTA AGTTTATCTG TAATGTGCTT
TCATTTATTT CACCGCAAAT TATATTTTGG ATATGTATAT ATTATGTTTC CTCTGCCTCT CTGTAGCAA TTGCTTTGT
AGAGTTCTAG AAAAAAATG GCATCTGTTT TTCTTTTAA ATATTACAT TTCCATTATT ATTATAACAA AATCAATCTT
TCAGAGTAAT GATTCTCACT GTGGAGTCAT TTGATGATTA AGATCCAGTT GGCATA

SEQ ID NO:2161: (Length of Sequence = 404 Nucleotides)

CCTTCCTTCG GTTTCACCTG GACTTCTATC AGGTCTACIT CCTGGCCCTG GCAGCTGATT GGCTTCAGGC CCCCTACCTC
TATAAACTCT ACCAGCATTG CTACTTCCTG GAAGGTCAAA TTGCCATCCT CTATGTCTGT GGCCTTGCCT CTACAGTCTT
CTTTGGCCTA GTGGCCTCCT CCTTGTGGA TTGGCTGGGT CGCAAGAATT CTGTGTCTCT CTCTCCCTG ACTTACTCAC
TATGCTGCTT AACCAAACTC TCTCAAGACT ACTTTGTGCT GCTAGTGGGG CGAGCACTTG GTGGGCTGTC CACAGCCTGG
CTCTTCTCAG CCTTCGAGGN CTGTATATC CATGAGCACG TGAACGGGC ATGACTTTCC CTGCTGAGTG GATCCCAGCT
AACC

SEQ ID NO:2162: (Length of Sequence = 339 Nucleotides)

CACTGCCTTT TTGTAGCTTG GGATCTAATT TGTAACACCT TGCTACCTAT GAAAAGTGGG AATGTAAAAG GGAAAAGCA
ACTTGGCATT TACTAACTT AGGCTAACCA AAACCTCTG TAGAGATCCT TACTAGACAT GGGTGCAACA GCAAGCATCC
CAGAGACCC ACCACTGGGG TATGTTTTAG GCCAATGGAG CAAATTCAA TTTGGCTAAA AGAAGAAGAA ACTCATTTAG
TATGGCAATA ATATTGCGT TCGACACAAA GTGGCAAACC AACACATTTG GCCTAAACAT GGTCTATAT GTTATAATGA
TACTTTACAA TTAGACTTC

SEQ ID NO:2163: (Length of Sequence = 285 Nucleotides)

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CCCCGCCACC TCCAGCAGGA GCAGCTCAGT TTGTGGCTCT GGGAGCTCCG CTTTTCGAAA CCCAAAAAGG CTGTGCATTT
 GGAAGCCAAA CGCTCAGCAT GCGGCTGCCG AGTCTGGTTT TGTGGACAAA GCAAAGCTGTG GAATGGCTTC TCGGTGCTG
 TATAAAGGGA CAAACGGTTG CATTACCCCT TTGTACTATA ACACCGCTTC TGCATTGCC ATATCCGTTT TTTAACCTTT
 TTGTCTCCGG GGAACCTCTC ATTCGATTAT NATGTCTTCT GATGA

SEQ ID NO:2164: (Length of Sequence = 296 Nucleotides)

ATGTTTGTA ATCACTTCCT TTTCTACAA TATTTCTAAT AAGAAAGCTT ATAACAGCAC TTTATTGACA CCCTCGGACC
 CGGGCAGGG TCAGCAAGAC TCCAGCTGG CATCAGACTG TGCTGGCCT GCTGTGCCA TCCCTGAGGG GTGCAGGACA
 GAGCCCCATA GGGCAGAGAG GCCTCCCTGG GACCAGAGGA GGATGCTGTG CAGCCAGGCC CATCCCCAGC ACTCGAGGCC
 TAGGAGGAGA GGTGGGCTCT GGCAGCGGT GTNAGGTGGC AGTGAGAAGC CAGGCC

SEQ ID NO:2165: (Length of Sequence = 310 Nucleotides)

GTMTTGTGA TGTTTTTCAA ATAATGTTTT TCTGTGTGTG TTTTTTNCCT TTTTTTGGAC AGGNTCTCAT TCCCATTGCC
 CAGGGTGGAG TGCAGTGGTG CGATCTCAGC TCACTGCAGC CTGACTTCC CAGGTTGAGA TGATTCINCC ATCTCAGCCT
 CCCGAGTACC TGGGATTACA GGCACACACC ATCATGCCCG GCTAATTTTT TGTATTTTTA GCAGAGACGG GGTTTTGCCA
 TGTGACTCAG GCTGGTCTCG AACTCCTGGG CTCAGAGAT CCGCTGCCT TGGCCTCCCA AAGTGTGGG

SEQ ID NO:2166: (Length of Sequence = 361 Nucleotides)

GATGGAACT GGAACAAAAA TAATTGTAA GCAACAATTT TAGATTTTTT TATGGAGGAT AGAGACATTT GAATCAGATA
 CCAAGAAATG TATAGTAATC ACTCACATAG AAAGATGTCT AAAATGGATT TTAAATGGGA TCGGGGAAAG CAAGGTGCTG
 AACACATGC TGTACATACT ACTTATAAAT CAAAGCAAAC CACTAGCAA CTGATGTCAG TACTAACACA GGTGGAAGTG
 GGATTGTGGC GGAGGGGAGA GGTAGTINAGG GTAGACTTAT TTGTACCATT TTNATTTTTG ATATTTCTTT TATATACAGA
 TACATAAGTC TGTATATACA TGTATGTCCA ATTATCTCT T

SEQ ID NO:2167: (Length of Sequence = 325 Nucleotides)

TCCTGGGCTG TGCTCTGTTT GAAGGGGGCG CCCTGCTCCC CTCAGATCAG TCAGGAGGAA GATGACTAAG GGGAGGGATC
 CTCTGGGTGA TGGCCCTCTC CTCTCAGGG ACCTCTGACT GCTCTGGGCC AAAGAATCTC TTGTTCTTC TCCGAGCCCC
 AGGCAGCGGT GATTCAGCCC TGCCCAACCT GATTCTINATG ACTGCGGATG CTGTGACGGA CCCAAGGGGC AAATAGGGTC
 CCAGGTCCA GGGAGGGGCG CCTGCTGAGC ACTTCCGCC CTCACCTGN CCAGCCCTG CCATGAGCTC TGGGCTGGGT
 CTCG

SEQ ID NO:2168: (Length of Sequence = 348 Nucleotides)

GGAGAACCCT TCGCGGAGGA AAGGCGAACT AGTGTGGGA TGGCCACCAA CTGGGGGAGC CTCTGCGAGG ATAAACAGCA
 GCTAGAGGAG CTGGCAGGC AGGCCGTGGA CCGGGCCCTG GCTGAGGGAG TATTGCTGAG GACCTCACAG GAGCCCACTT
 CCTCGGAGGT GGTGAGCTAT GCCCCATTCA CGCTCTTCCC CTCACTGGTC CCCAGTGCCC TGCTGGAGCA AGCCTATGCT
 GTGCAGATGG ACTCAACCT GCTAGTGGAT GCTGTCAGCC AGAACNGNTG CCTTCCTGGA GCAAANTCTT TINCAGCACC
 ATCAAACAGG ATGACTTTTA CCGCTCGT

SEQ ID NO:2169: (Length of Sequence = 392 Nucleotides)

ATTTTGTGA GGTCCAGTTT GGTGGCAGA AACTAAGACA CTGAGCTGAT GAGAGAACTT GTTGCTTTTC GCCCTGCGCA
 TTTATTATT TATTATTTA TTATTTTTG TATTTTATG AGAGACAGAG TTTCACCATG TTGGCCAGGC TGGTCTCAA
 CTCCTGACCT CAAATGATCC ACCCACCTCG GCCTCCCAA GTGCTGGGAT TACAAGTGTG AGCCACCATG CCGGCCACC

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TGTTGCATCT TTAACAGCTG TGTGTTGGAAA AGGGTGAGGA ATTGATTTCAT CAATATTCAA TACTAAGCTG CAAAATCAGG
AATGCAGCCA ATTGGTTTAA TTGATCAAGG CTTATAAACT CTTAAGGGAC TCTAGTGAAC TGATACAAAC TA

SEQ ID NO:2170: (Length of Sequence = 273 Nucleotides)

GTGTGTTGTTG ATGCTGTTGT TGTGCTTTC TGTGTTTTC TCTGCAATG GTCAGGTCCC ACTCTGAACT CCGGGGGGCA
CCAACTGAT GCCAGTAGGA TTGCCCTTGT ATAGGGTGTC TGACAACCCC TGTGAGGGT CTCACCCTGT TGGGTGGCAC
ATGGAATAGG ACCCATTTAA TGAAGCACTT TNCCTTGG TGGAGGTAGT GTGCTTINCT GGGGAAAAC CCACTTGTCT
GGGCTGCCCTG GATTCTCAG AACTACCAGG AGG

SEQ ID NO:2171: (Length of Sequence = 357 Nucleotides)

GTGATGTACC CCAGCACTAG GGAATGATGT GAGTAAGACC TAATCCCTGC TCTCAGGGAG CTTATAGCCT ATGGCAGCAG
CAACACTAGT AAAAATTTAC TACTTTGATA GGTGCACATC TTCCTTGGT CAGCAATTTT CTCAAACCA CTGTAACATT
TTACTAAAAT GCTAAGCTTT GATTGTTTTT CAACTACTTC TTGAGAGTTT CTGCATGTAT GATAAGGGCA AGACATTACA
CTGAGGTATT GATGCTGATG AGCAGCAAGG CTCACTGGCT GGTGAAGGGA TACTGATTAG CACACCAATG TGCTGCTCTT
GAACACACAC CTCCACAAA TTACAAATTA TCTTCCA

SEQ ID NO:2172: (Length of Sequence = 381 Nucleotides)

GAAGAAGGCC CATGGAGCTA AGGCCTCAGA ACACCAAAGT CTGGACTGTC TGAGGGCACA TGCTAATAAC AGGAGGCTGG
CAAAGTGGCC AGCTCCCATG CCTTTCATG CATTTNCTT TACCTCCTGC TGCCTGGGAA CATCTTCCA GGAGCAATCG
AGTCAACAGC ACCACAGACA CTGCTATTCC GTTGAGAAAA GTTTTATATG GAAACACATA CTGATCATGA ACACAATAAA
CAGGGAGGGA AGCTCGGGCT CAGCCAGGAA ACCTGCCACA AGGAAGATGT TTGGAATAT CCAGGAGTAG TGTCAAACAC
TAACACCATA TTTACAAGTC TAATTTGGAA CCTGGGCCCT TTTAAGTGC AGGAGGAAGT T

SEQ ID NO:2173: (Length of Sequence = 351 Nucleotides)

GAAGTTCCGG GAGCGCCTGA AGGAGCTCGT GGTCCCCAAG CACGTCATGG ATGTTGTGGA CGAGGAGCTG AGCAAGCTGG
GCTGTCTGGA CAACCACTCC TCGGAGTTCA ATGTCACCCG CAACTACCTA GACTGGCTCA CGTCCATCCC TTGGGGCAAG
TACAGCAACG AGAACCTGGA CCTNGCGCGG GCACAGGCAG TGCTGGAGGA AGACCACTAC GGCATNGAGG ACGTCAAGAA
ACGCATCCTG GAGTTCAITG CCGTTAGCCA GCTCCGCGGC TCCACCCAGG GCAAGATCCT CTGCTTCTAT GGGCCCCCTT
GGCGTGGGTA AGACCAGCAT TGCTCTGGTC C

SEQ ID NO:2174: (Length of Sequence = 308 Nucleotides)

TCATTAAATA GCTTCTATGC CACACTCTGA TTAAGCCGAC TGAGGTCCCT GGGATCTGGG TCACTGGACC GAGCTGCTCG
CTCGGTGGCT CCACTGCCAG GTCGGGGCGC GCTCCCCACA GCGCTCAGTT CTGGCCGAGA CAGGGCCTGA CATCCGCGGC
CTGCAGTCCC GGGGTGGCCG TCACCGTTCC ACGGCCAGNG ACTCTNCCTG CTGTCGGGG AAGGCGATGT CGAAGATCTC
CCGGTAGTNT TCCACGAAGG TAACCTCCAG GGCCCTCGGT GATGAAGGCT TCCAGGTCTG AGAAGTCC

SEQ ID NO:2175: (Length of Sequence = 403 Nucleotides)

CTTGCCCAAG GGCCTGAGCT GGTGGAGGCA GAGCAGGAGT TGGATCCAGG CCTGTNTGAG GCATCCTGCC ACCTCCATCC
AGACCTGGAG CAATCCCTGA GAAGGGTGGC TACCACCAGA GATGTGGCAG CTCTGGTCTC AGGAAGCATA GCCGGAGGAT
GTCCCAGGCA ACCAAACAGC CATTTCATCAG TAAGGAGCCA GAGTINAGGC TGCTAGTTCA GCGCCGGAA GGTGGTCCAG
GGGCAGCCAG TNCAGAACTC AGCAGGAGCT CAGTTCCAAC TGAGCCTGAT TTCACTCCAG TGCCACAAG GGACATCCTG

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ACCTGGAGGT CCTCGGCTAC TCACCCTGGG GCTTCTTGC ACAGCCCAGG AGCTAGCCCA GGGCTGCCTC TAAATGGTTC
CCG

SEQ ID NO:2176: (Length of Sequence = 399 Nucleotides)

AGGCAACTAT TGAGGGAAGA GGCAGAAAAA GGAAAAAGGA ATGTACGTAA GGCAATTTIN CTAAAAAGTA CAATAAGCTT
AATAGTGTIT TAGGAAGACA AGATAAAAAT TACTCAAGGC TAGCTTGGIT CTCACTGAAT AAAAACAAAG GACTAAATAC
TGAGCTCCTT CTGTGTGGAT CTAATAATCA ATGCCTTGGT CGCTATATTG GTAATCTCTG GGGTAGTCAT CCTGGTACTC
GCCATGATAC TCATCAGGGT ATTCTGCCTG ATAATCACTA TCACTGATTT CCGAACCATT TGTTCTGTIT CCTTGGCTTC
CGTTGTGAAT GACAGGTICT GTAGGAGCAG CACAGTATTT GGGGATCATA TACTTGCCGN CCAAGGCCAT ACAAACCTCA

SEQ ID NO:2177: (Length of Sequence = 302 Nucleotides)

GGTTTTTATA AAAATCAGAA TTTTCAAAAT GCATTGGTCA TTTTCAGATG CATTGGTCAC ATTTCATTAT TCCATATCAA
AAAACCTGCAT TTGTTAATGT CACACAAATC TCATTGGAAA GGTCTTCAAG TATTGTGAAG TTGTCCAGGT CACAAAGATG
AATGCTAGTT TTTCAAAATT CTACTTTTAA CTGAATGCT CAAATCTTAT AATTGGTAAAC CCGTCCAGTT TTTCTTTAGT
TGATAGGCTT ACTGCTTTTA TGTTGTGAGA ATACTTGTCT GTGAAACATC CAAATCTGGA AG

SEQ ID NO:2178: (Length of Sequence = 343 Nucleotides)

GGTTTCACTC TCCTTGCCCA GGCTGGAGGA GCAATGTCAT GATCTTGGCT CACTGCAACC TTCTCCCTTC CAGGCTCAAT
CAATTCTCCT GCTCAGCCT CCCGAGCAGC TGGGACTACA GGTGCGTGCC ACCATGCGCA NTAGGTTTTT TTTTGTAGA
GACAGGGTTT TGCCATGTTG CCCAGGTTGG TCTCCAATC CTGAGCTCAA GTNATCTGCC TGANGTGCTG GGATTATAGG
GTINAGCCAC CACATCCAGC CTCCTTTTAA TGTTTGTGTG ATTATTTATA GTGAAAGATT TAAATTCCTT TCTATTTCTT
TGTTGTATAT ATTCTATAGG CTA

SEQ ID NO:2179: (Length of Sequence = 377 Nucleotides)

AGATCATCAG GAATTAGATT CTCATAAGGA ACACACAACC TAGACCCCTC AGAGGTGCAG TTCACAGTAG GGTTTCATGCT
CCTATGAGAA CCTAATGTTG CAGCTGATCT GACAGGAGGC AGAGCTCAGC TGGTAATGCT CACTCACCTG CTGCTCACCT
CTTCTGTGTT AGCTCGGCTC CTAATAGACC TGTATGTGTC CATGGTCTGC GAGTTGGGGA CCCCTGCAGG AAGTCTTGTA
AATGCATGTC AGGAACTTA CTGTTTACAG CCACATAGTT TGTAGTAGTA AGGAACTAG GACAATTCAA ATATTCATCA
NGGGGAAAAC TGGGATAAAT TGTGGGTCAA TTTTCATATG TTCATACAGG AAAAAAG

SEQ ID NO:2180: (Length of Sequence = 195 Nucleotides)

GATATTTGCT TTTCTCAGAA CCATAATCGA TACAAGATGC AGTGACCAAT TCATTCTTTA AAACACCTGG GCTCCTTAAG
CGGCTAGAAG ACACAAGTTA CATCCAGCCC ATCAGGGAGC CAGAGGGNGA GGGGTCCCCA GCCAAGCTCT GGCNAGGCCT
GCCATGGGGC AGNCCTGAC CGTNCAGCCA GAGGT

SEQ ID NO:2181: (Length of Sequence = 244 Nucleotides)

TTGGGTGGGA ACGGGCCCGG AGCGGGAGGA ACGTGACTCC CCAGAGGGAA GATGGGCATC ATACTGGGCC CAGAGCTGGG
AAGGAGTTCG TGCCAGCACA GGGTGGGCCT GGACTCCCTT CGCCCCTACC CCCAGTGGTT GTGGCTGTAG CCTAAGCCT
GGAGAGCAGG ACCGGCCCGG GTGTGTTGTT AGGCTGCCAG GTGCCTCCA GAGCTCCCAA GGGCCCCCAC CTGCAAGTNC
CAGC

SEQ ID NO:2182: (Length of Sequence = 287 Nucleotides)

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CTCCTTGAGT CTGTTGACAC GTCACATGGT CAAAGTCTCC TCATTTTCAGC CAGTCTCAAC ACAAACACC CAACAGGGAT
GCACTCAACT TGTTGGTTCC ATGTGGAAGT AGGTGGCAGG GCGAGAGGGA AAGTAGTAGA AGGGGGCTAT GGTGTGTCTG
CATTCAGTCC CCTCACATAA AGCCACATGG ATCTAGGGGG GTATCCAAGA GCTCTGGTGG GGTCCGTGTT GCACCTAAGA
CATTATAGGT CAGAGCAAGT TGCTCAGAGG GTTCCAGGCA GGGGGCT

SEQ ID NO:2183: (Length of Sequence = 389 Nucleotides)

GATCCAGAGA GGGCTCCAGG TGGAGTCCCT TTTTCTGCAT AAGGGGCTGT GACCGAAGCA CAGAGGGGAA AAAAAAAGT
GGTGGGAGCC TCCTCTGGTT TCACCTGAAG AGGGAGGTGG AAGGGCCTGA AAATTAGATT TTNTTTATAA ATAATAGATA
TTATAGGTAT ATTTNCATAT TTTTACATAA TGATCCAAC CACAAACAAT GGACCATAAA GCACTGACCT CAGAATGATC
AATTGCAAAA TGTTTAAACC CTGGGAAGCT TTTGCTTAGG AGGGCGGATA TTCTGTGTG ATGTTATICT ATAGCCATAA
ACTTCCCTGA ATTTNCTGCT AATGTATCCA AGTCCAGGGA AGTCACTTAA AACTCTTCAA ATGCAGCTT

SEQ ID NO:2184: (Length of Sequence = 383 Nucleotides)

GCAAGAGAAG CGGTTTGGGT CTCTGAAGGA AAGGCCAAAA CCCAGAACAA AGAAGAATCC TATGACTTCT CCAAATCCTA
TGAATATAAG TCAAACCCCT CTGCCGTGTC TGGTAATGAA ACTCCTGGGG CATCTACCAA AGGTTATCCT CCTCCTGTTG
CAGCAAAACC TACCTTTGGG CGGTCTATAC TGAAGCCCTC CACTCCCATC CCTCCTCAAG AGGGTGAGGA GGTGGGAGAG
AGCAGTGAGG AGCAAGATAA TGCTCCCAA TCAATCCTGG GGCAAAGTCA AAATATTTGA GGAAGATGNN TCCACAAGGC
CAGGTTACAG AGGAATGCAA GGAGCTTCCA GGAAGCACA GAATTCCAAG TTTTCGGAAA TTT

SEQ ID NO:2185: (Length of Sequence = 359 Nucleotides)

CTTTAATTCA CATCACAGCA GTCAAGGAAG TGGGGAAAGG GGAAAAAAT CAAGTGGCAG ATATTTACAT CTAAAATTCA
CATTACTTGT TGGATTTTGA ACATGCTACC ACAATATATA CAGTAAATA CCTCTTGGGA CAATGGTACA AATTTTGTIT
CCTTTAACTT TGCTTTTCTG GTACAGGTAA GATCATTTTT AAATCACTTT TTTNCTTTAA ACATGAATAC ACAAAGAAA
TGGTTAGAAG TTTCTTGT TTAATAAGC ACAGAATGCG GGAGGTTAAA AACACATTTA TAGTGCTGAA TACCAATTGG
NCATCACACT CTATACATTT TTTGCTCAAA TTCTGTAC

SEQ ID NO:2186: (Length of Sequence = 337 Nucleotides)

ATAGTTATAC TCAGTGAAAT TAACAAGACC CAAAGGTGGT ATGTCTAGG AATAAAAGGG ATAATTTTGT TTGTTCAAA
AAGTAACTTG TCTAGCACCA CACATCAGAA AAACACAAA ATAGCACACT CTAGTTCTAA ACAGCTATGT CTAAAATAGA
TTATATAGTA AAACCGGTAT TATACAGCAT ATTGTGGATT TGATAAACAG ATAAATATTT GCNCTGAGTA GGCTGTTTAT
AATATAACAT TTNCTTATCT ATACAGAATG AAAGCCAAA AGTAACTGT ATAGAGATGT GCAGAACAA ATTAATATT
ATGGCTCAAA AGCAGGG

SEQ ID NO:2187: (Length of Sequence = 329 Nucleotides)

GCATTINICA GCACAGATAG AGCCCTGTCC CTCCACCTAG TGCCCACTCC ATGACTGITA ATAATAACAA TAATAATAAA
ACTACTGGCC AAGCACGGTG GTCATGCCT GTAATCCCAT CACTTTGGGA GGTGAGGTG GGCAGATCAC CTGGCCCAAC
GCCACGCGCT CTAGCTCCGG GCTCCCTGAG GTCCCCAGTG CCTTNNCCGG TCCCACGGCT CCCACGNTGC CACCTGTCC
TGACTGCGCA CCTGGTCTTG TGGGCAGACT GCTGATCGAG TTCACCTCAC CCATGCCCTT GGAGGCGGGT GCAGAGGGAG
AAGCCAGGC

SEQ ID NO:2188: (Length of Sequence = 335 Nucleotides)

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GGCCCCAGCT CCTCTTCCTG CCTCININAT GGCTTGGGCT GGAGTGGGCT CTCTGGACCT GACCGGGGGT CAGACTGTGG
 GTCCCTGCGT CTCCTGCCCA CTCINACCGG GCTTCTCTCC TCCACGCTTA GGGTCTGTCC CGGGTACTCA GTCAGCCCAG
 TGGGATCTTA CCCACTTCCC TGCAAGGTGC ACCTGCCCA GGCTCAGGCT GCCAGCGGC TCTTCTTGA CAGTAAGAGC
 AGGGCTGGGC GCCTCTTTCC TGGCCCGGAA GCGCAGGGG CCCCTCTCC AGAGCCTNGG CGCAAGGAAC ACAAGGCTGC
 CGCTGCTCTT CCAGG

SEQ ID NO:2189: (Length of Sequence = 366 Nucleotides)

AACTGGTGGA TCAGATCGAN TTCTACTTTT CTNATGAAA CCTGGAGAAG GACGCCTTTT TGCTAAAACA CGTGAGGAGG
 AACAAAGCTGG GATATGTGAG CNITAAGCTA CTCACATCCT TCAAAAAGGT GAAACATCTT ACACGGGACT GGAGAACCAC
 AGCAGATGCT TTGAAGTATT CAGTGGTCCT TGAGTTGAAT GAGGACCACC GGAAGGTGAG GGAGGACCAC CCCCCTCCCA
 CTGTTCCCCA ACGAGAACCT CCCAGCAAG ATGCTCCTGG TCTATGATCT CTACTTGCTT CCTAAGCTGT GGGCTCTGGC
 CACCCCCAG AAGGAATGGA AGGGTGCAAG AGAAGGTGAT GGAACA

SEQ ID NO:2190: (Length of Sequence = 333 Nucleotides)

CTGCGATCCA GCCTAGGCAA CAGAGTTGAG ACCCTATCTC AAAACAAACA AAACAGCCAG GCACGGTGGC TCATGCCTGT
 AATCCCAGCA CTTTGGGAGG TCGAGGTGGG GGGATCACCT GAGGTCCGGA GTTCGAGACC AGACTGACCA ACATGGAGAA
 AGCCCATCTC TACTAAAAAT ACAATATTAG GGGCGTGGT GGTGCATGCC TGTAATCCA GCTATTGGG AGGCTGAGGC
 AGGAGAATCG CTTGAACCTG GGAGGCGGAG GTTCAGTGA GCCATGATTG AGCCATTGCA CTACAGCCTG GGCAAGAGCA
 AAATCCGTC TTC

SEQ ID NO:2191: (Length of Sequence = 284 Nucleotides)

AAGTTTATAA AAGTTTGATT ACTGGAAAAG TTGATCTTAA TTCAGAAATT TCAGGCCAAA TGAAACAGCC CCTTCAAGCA
 AACATGCCCTT CAATCTCTCG AGGCAGGACA ATGATTCAAT TTCCAGNGT TCGAAATAGC TCCTCAAGTA CAAGTCTGT
 TTCTAAAAAA GGCCACCCC TTAAGACTCC AGCCTCCAAA AGCCCTAGTG AAGGTCAAAC AGCCACCANT TCTCTAGAG
 GAGCCAAGCC ATCTGTGAAA TCAGAATTAA GCCCTGTGTC CAGG

SEQ ID NO:2192: (Length of Sequence = 260 Nucleotides)

ATGACGACGG CTACCTCGAG GTCAATTGGCT TCACCATGAC GINGTTGGCC GCGCTGCAGG TGGGCGGACA CGGCGAGCGG
 CTGACGCACT GTCGCGAGGT GGTGCTCACC ACATCCAAGG CCATCCGGT GCAGGTGGAT GGCGAGCCCT GCAAGCTTTC
 AGCCTCACGC ATCCGCATCG CCTGCGCAA CCAGGNCACC ATGGTGAGA AGGCCAAGNG GCGGAGCGCC NTCCCCCTG
 CACAGCGACC AGCAGCCGGT

SEQ ID NO:2193: (Length of Sequence = 247 Nucleotides)

GGTCTCAGCA CTCGCTGGGT GACCCGCGGG AGCAGGCAA GGAGGGCTCC CAAGTCCGTT CTGCAGCACT GGGGCGAGGA
 ACAGACCCAG GNTCCTGGGA ATCTCTTCT GCTAGCTTT GCCTGCCTGC CAGAGCAGGG CCTGCGGTTT GGGTNCCTGN
 ACCNTCCGGG GGCGGGGAA GGGCAAGGNA GGCGGATCTC TGAAGTCCG CCCAACTTCG CTNCTGATCC CCCAAGGTCA
 GAGAGGG

SEQ ID NO:2194: (Length of Sequence = 399 Nucleotides)

CCTCCATCTC CCGGGTTCAA GCGATTCTCG TACCTCAGCC TCACAAGTAG CTGGGATTAT AGGTGTCCGC CACCACACCT
 AGCTAATTTT TGCAATGTTA GCAGAGATGA GGTTCGCCA GGTTGGCCAG GCTGGTCTTG AACTCCTGAC CTCAAGTGAT
 CCACCCACCT TTGTTGGCCT CCCAAAGTGC TGGAATTACA GGCAACATGT AGCCTTTGAG TCTAGCTTCT TCCACTAGCC

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TAATTCATTT GAGATTCAC TCGATTCTAC TTGAGATTCA TOCACATTGT TGAATGCACA TTCTTTTTTA TTGTTCTGT
AGCATTCTGT TGTGCAGCTG TGCCCCAGTT TGTITANCTA TTCACTCTCA GTTGTTCCTA GTTTAATGA CAACTTCAG

SEQ ID NO:2195: (Length of Sequence = 172 Nucleotides)

TCAAAGTCAG CTCTTGACC TGCAGGCTT CAATTTGTGG CTGACAGTTT TAACTCAGAA AATCCCTGAC TTGATTGGCT
ACATAAATNA TATGINATAT AGCCATTAG ATCATGGTTT TGGAAAGTAT TTTAATGATA CAGGAATGTG CTCTGAAATA
ATAAGTGGGA CT

SEQ ID NO:2196: (Length of Sequence = 398 Nucleotides)

GCAAAAAAAA AAATTATTAT CTCCACTTTA CCAGTGCTGA CACTTCACCA ATGTAGGGCT CTCAGTGA CTAGCCAGGGT
CATGCACAGC CTGTTTCAGC AGCTACCTTG GACTTGAACC CAGCTCGGTC TGTCTGACTC AATGCCTATA GTCTTAACCT
TTCCAGCAGC TGCTTCTTTG TCAAACAGGT CCTCCCGCAG GTTTTCACAG CCCAGCCCCCT TACTCAACAA GTATTTATTG
ACAGGCCTCA GGAACACTAG GCAAGTAGGA TAGCAATGAA CAAGATGCTG ACCTTGACCT TGACCCTGCA TCCATAGTAT
GAGCATTTTA ACTGGGGGAG GGTTTGCAA GTTCTCTTAA ACAGTCTACT ACATGCTCTG TAAGCATTTT CTTATGGG

SEQ ID NO:2197: (Length of Sequence = 313 Nucleotides)

GTCCCTTG TG CATGAGTGC ATCCCCGCTG GTGACTAAGC TCGCAGCAAG CGGCTACCCC CCGATCTGCA AAAGGGCCTC
TCCCTTTG TG TTCTATACAT TGTAATCTT CCGTCTGAA GAACGCCAG CCTGCCGAGA CAAAGCCCCG CCTTNCCTCA
AGCAGAGGGG CTGCTGTGT CTCCAGAAAG GGGACATCG GGGGGAGGGG GGCTCAGAAA GGAGAAGGGG TGTGATCTCC
GGTCCCTTCC CCCATCATCC TTCTTAGAC TGATGCTTG ACTGAATCAT CACTAGCTAT GGGCATTAA AGG

SEQ ID NO:2198: (Length of Sequence = 360 Nucleotides)

GGTCTCACTA TGTGCCCCAG GCTGGTCTCA AACTCCTGTT CTCAAGCGAT CCTCCTGCCT CGNCTACCA AGGTGCTGAG
GTTACAGGCG TGAGCACTGC ACCTGGCTAG GAACTNAGT TTTTTCAGTG GTAGAGGCTC CTAGCCAGTG GCCAAGGGAA
AGAGAGAGTT CTGGGTTTCA GGGCTGGCAG GAAGTCAGCA AGACACCAGG GACTCGGCTC CACTGGCTGG ATCTCAGGGA
AGAGCAACTG CCACAGTGGG GACCTGGAAC ACAAAGGGAA ACTGAGGCAG CAGCTGCACC ACAGTTTACA AGTAGAAAGA
CCATGCTTGA GGACAACAGA AGTTTCACTA AGGATGCAG

SEQ ID NO:2199: (Length of Sequence = 374 Nucleotides)

TTTGGGTAG TACCCTTGCC CTCTTCATGG CCACTTCAAA GTGAAGCCAG CAAAGTGATA ATACTTTATC ATTTAGTATT
ATCATAAAGT ATTAATACTT TGTATAAAG TCCTCCTTGA GCCCAGGGAC CATGGAAGTC AGCTAGAAGA GCCCTGAGCA
AGGAGCAAGG ACTTGGGCTT CTCCACGCTT TGCTCCTGGC TTGTTTGACC TTGACTCAIT CCCCATATGT CTTTGAGGAG
GCTCACAAAA TACTAAAGCT GGGAGGAAAC TTGGAGATCT ATAGGTCAAA CCTCCCAIT GGGCTGATGA GAAAATACAC
GCAGGCTTAG CATGGTGCCT GCCACCATGG TGGGATCCAG TATGTTTTTA TAAA

SEQ ID NO:2200: (Length of Sequence = 416 Nucleotides)

CTACTAAAAA TACAAAAATT AGCCAGGCGT GGTGGTGGGC ACCTGAAATC CCTACTCAGG AGGCTGAGGC AGAGAATCCG.
TTGAACCTGG GAGGCAGAGG TTGCAGTGAG CCGAGATCGT GCCACTGCAC TTCAGCCTGG GTGACAGAGC GAGACTCCAT
CTCAAAACAA AACAAGCAA CAAACAACAA CAACAAAAA TACCTCTTGA CTTCTAAAGA CGCAAAAGTG GCCAAAAGTG
CAATACAGTA TTGTGTTTAT TTACATCTAT TTTAAATGCA TGTGTATCTG TAAATNCAA GTGATTCGTG ACTCATTGTC

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TCCTCAGTCT ATAGCATTAT TAACTTTCTA GGAGCAGCAG TGGAGTAGAG TGGTACTGAA TTGGTCACAG ACTTCATCCG
ATTATCAGGA TCCTGG

SEQ ID NO:2201: (Length of Sequence = 315 Nucleotides)

GAAACCAATA TAAATTTCAA AATAAACAG CATAACAGC AATTGCAATT TATAGAAAA ATAAAAATGT AGAAACATCA
CCTCCTCTCC CCGACCCAG TACTGAAATT ATACTTCCTC AGACATACTG CCCCATCACT GGAAGGGTG CGGACAGATT
GGGTACATTT ATAGANTATT AAATAATTAA GTACAGAGG CACCGTTTTT GCATGTATGG TCCCAAAGAC TTTTCAACTT
NTTTTCAAC ATTACAGTGG TTAAGAATGG AAATTGAAGG AATTGTACAT ATTTTCACTG GCAGTTTCTT ACAGA

SEQ ID NO:2202: (Length of Sequence = 328 Nucleotides)

GCCTGTCTAC TCAGCCTGGA GTGCAGTGGT GTGATCTCGG CTCACTGCAA CCTCTGTGTC GCAGGTTCAA GCAATTCICA
TGCCCTCAGG TCCTGAGTAG CTGGGATTAC AAGCATGCGC CACCATGCCC AGCTAATTTT TGTATTTTTA GTAGATACAG
GGTTTCGCTC TCCTGACCTC AAGCTATCCA CTGCTCTGG TCTCTCTCAG TTCTGGGATT ACAGGTATGA GCCACCATGC
CTGGCCGGAA TATATATATT TTTTACCACT CTATTTCAG TGCTAGACT AAAACCCAGC ACATGGTACA CGTCATACAT
AAGGAAGG

SEQ ID NO:2203: (Length of Sequence = 268 Nucleotides)

ATTTGTGCT CGTCGCTCAT GCCACCACTG GGACNACGG GGTTCGGG AGTGGTTTTT CTGGCTTGTT TCAGCCTTTT
CAGGCTCTCT TCATCTTCT TCACAGAGTT TAATACATCT GACACGGTTT CATAGTACTT ATGAGTGCTT TCACTGAGAG
TGCCCTCTAG CCACGTCTGA ATTATGCTT GTTTGAGCTT ATCCTTGTTT CCGCTCTGAA GCTGGAATAA GGGCTTCANA
GCACTGTCCA CATAGGAGGA AGCTTTGG

SEQ ID NO:2204: (Length of Sequence = 353 Nucleotides)

GTAAATCINA GGTCAAGGAT GTCCCATGAT GGATGATGAC TGANATGGAC GGAAGTTTGG TTTGAAGCGG TGGCATTTGGT
GCAGGCTGGC AGAGGGGGCA GTTCCTGGATA GAGTGTCTCG ATGAATGGGG ATACTCATGG GAGGTGATGC AGATGAGGAT
TCINTGCTTC TNAAGGAGGA GCCAGGCATT TAGAATGGCA CTGGAGAGCA AGGACTGACT GANCCCCCTC ACTGTGTCCC
CAAGAGGCCA GGAAGGGAAG ATTGGAGGAG ACAAAGTTGA AGTGAGTTTT CCAGGGAACG AGTCAGTTAA GAGATGGTAG
GATCTTAAGG GAAGATGGCT AAGATCTTAA GGG

SEQ ID NO:2205: (Length of Sequence = 265 Nucleotides)

GTTCACCAT GTTGGCCAGG CTGGTCTCAA ATTCCTNACC TCAGGTGATC CACCCCTCCT CAGCCTCCCA AAGTGTGGG
ACTACAGGCG TGAGTCACTG CGCCAGCCG TGGTTTTTTT TTTTATAGAA CAGTGTTTTG CCATGCTGCC CAGGCTGGTC
TCAAATCCAT AGGTTCAAGT GATCTCCCCA CCTCAGCCTC CCAAAGTGTC GGGACCACAG GCATGAGCCA CCATGCTTGG
CCAGAAAGAA GTTGTTAACA AAATG

SEQ ID NO:2206: (Length of Sequence = 340 Nucleotides)

GCAAAGCTTA TTTTTTCACT TGTGGGCTCT AGTTTGGTTG GGAACTAATT TCCTTAGACC TGGGTACCCC CTCGGGCTCC
CTTAATCTCC CGCCATATGT TCTCCAGAAT CAGGGCATGG TGTCTGCCC TGGTGGACT CAGCCCGGTT GCTTTGCACA
GACTCTGGGC CAGGGCAGGA TGTGGGTTT TGCCGGGTT TCGCCGGGTT TATCTGTGG CGCTCAGTAT GGTGCATAGT
GTAGACACGT GCCCTAGGTG GTGTTTAATT GATCTGGGTA AGACTCAGNC AAGGCAGGGC ACAGTGGCTC ACGTCTATAA
TCCCAGCACT TTGGGAGGCT

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SEQ ID NO:2207: (Length of Sequence = 348 Nucleotides)

GIGTTTGTTT CTCCTTCCAC CATAATTGTA AGCTTCCTAA GGCCTCCCCA GCCCTGTGGA ATTGTGGATC AATTAAACCT
 CTGTCCITTA TAAATAACCC AGTCTGAGGC AGTTCCTTAT AGCAGCGTGA GAATGGACTA ATACACCTCC CTTCTTGAGT
 CTGGAAGAAT ATGTGAAGGG AGATTGCTAA GGAATTATTT ACAGAATGGT TCTTAAAGTG CTTGGGCAAG AACTATGTAT
 TTNTGGAGGC TGGTAGTGTT TCAGTGAATC TGAAAACCTT TGTGACATGT GAGAAAGGTA TGCTGTCTCT GAAAGCTAAG
 TGTATTATGA AGGATCTATA AAGGGCCA

SEQ ID NO:2208: (Length of Sequence = 154 Nucleotides)

GAATCTGCT GTGCACATTG CTTGAGATGG CTAATTATAT CTTTGGACTG TTTGTACAAC CATTGACAAA TATACTTACT
 TTCATTCTG CTAATGCAAC TGAAAGAGC ATTCTGTAAA TTGAAGAAA ACAAATAAAC AGNAATTAAC AACC

SEQ ID NO:2209: (Length of Sequence = 352 Nucleotides)

GAGGTTGAGA ATCTCCATC CAGCATCTTC CCTGGTCACA TGGTCCCAAC CTTTTGCTCC ACCCCCTTCT CTGTTCCCCC
 CGCAGTCCAT GCTCCAGCCA TCCTGACTCT GTCCCTGGAT TTCTGGCTTA CTGACACCTG AGCCTGTGCA CAGGNCCTCC
 CTTCTGTATA GAGCACGCTT CCCATCTTGT GGAATTGCTT CCCATCTTGT GGAATCGGAG GGTTCGAGC AGCCGTTGAG
 GTGANGCTCC TATGACACCT CCNCCGTGAA GCTTNCCTCA CTTTTCCATT ACCAGTGAGG CCTGCCACAG CCGATTGTG
 ACTCTGATCC TGGCACGCAT GGAAGCCATC TT

SEQ ID NO:2210: (Length of Sequence = 338 Nucleotides)

GTCTTTCCAT CAAGAGTCAA TGTATATGCA AATATAGACT TAAGAACATA AGCATCCTGG TTTAATGTTG TTGTGAGCCC
 TGTGGAAATA AAATTAAACT CAGTGAATGT TTACAAATCA ATACATAGTA ATCCTATATA TGAAAGCTAA GATGTATAAG
 ATGTTTATAA ATTINCTATT AGAAAATACT GCTTTCTTAA AGGTGATTTT AAAAAGCTAG CTGATATCTG ATGGCTCAAG
 CATCCAGAAA ATGTATGCAA TGATAAGNCA TTGACTAGGA TGAACAGAAA AGGGATACAG GAAAAGTCCG AACACATGAA
 ATTCTAAATT AACCAAGA

SEQ ID NO:2211: (Length of Sequence = 353 Nucleotides)

GTTCTGGAG TACCCTCTTC CCCCACCCCA AGACCTGCTT TCAGAGCAAA ACTCAAGTCC CTCTTCCTCC GTGAAGCTTC
 TCCCTCAGCT GAGCAGTGAT CACTTACTCA CTCTTAACCC CAATCCGCTG ACTGGGTGGG GACAGCACGT CCAGCCTTCC
 CACCTCTCCT GCAGGCTTCT AGACGGAGTT TCAAAAAGTG ATGAGCCTCG ATCCAGGGCT TGAAAGAAGC CAGGGTGTA
 TCTTGTTCAT GCATGCNTCC CCAGAGNCTC GCCCAGTGCC TGGNACATAG TAGGCACTCA ATAAATGCTG AATGGGTGAA
 TAGTTGAATG ATAGGTGCTC AATAAATGAA TGA

SEQ ID NO:2212: (Length of Sequence = 293 Nucleotides)

GAGAAAGGAG GCAATCTCAG TCTCGGTC TC AAAAAGGGA TACTACTAGG GAAAGCAGAA GATCTGAATC ACTGTCCCCA
 AGAAGAGAAA CTTCTAGAGA GAACAAAAGA TCTCAGCCAA GAGTGAAAGA TTCTTCCCCA GGAGAAAAAT CCAGGTCCCCA
 GAGCAGAGAA CGAGAAAGTG ATAGAGATGG GCAGAGGAGA GAGAGAGAAA GGAGANCCAG AAAGTGGTCT AGGTCCAGAT
 CTCATTCTAG GTCCCCCTCA AGATGTAGAC CAAAAAGTAA GAGTTCATCA TTT

SEQ ID NO:2213: (Length of Sequence = 423 Nucleotides)

NATTAACACC ACAGTGATAA ACAACTTTAA GCTTATGTTT CTTTATAGAT CACTGGCTCA CACATAATTC AAAACCCACA
 CAGAAGCTAA GAGTCTTTAC ATTAAATATA TTCTTCCTAA AAATCCTTAC TGTATGCATC TGTCCTCAAG CAGTAAATTT
 TGATTATGCA CCATTTTATA ATTAAATATG CACATTTACA TAGCAAAATA ATGAAGGCAC AGCTAATACA AGCAAACTTA

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AACCCCTTCT ACTTCTGAGC TGGGGGTAGG GGCACACACT TGGGATTGGT TCCTCAAGTA TATATTTTTN CCAAACATTA
GCTTCAGTGA AGAGTTCTGG ATGATTTTCA CAGCTACACC CCTAAAAGCT ACATGGACAG AAAGACGTCA CAAGGGCGCA
GGTACATAAC GGTGGGTACA TAT

SEQ ID NO:2214: (Length of Sequence = 259 Nucleotides)

GTCATGGAGA TCCACAGCAA GTACTNGCGC TGCCTGCAGG ANCAACCTCC ACAGCGGGGC GTTCTCTGAT CGAGGCTCAG
ACTTTCGAGA ACGAAGAAGC CGAGACGGTC ACCGCCATGG CCTCGCTNTC CGTGGGCGTN AAGCCCGCCG AAAAGAGACC
AGATGAGGAG CCCATGGAAG AGGAGCCGCC CCTINTAGCAC TNCCTCGAAG NTGCTGTTCT CTGTCTGTG TGCTCTGTG
TTTAAGCTCA GCCAAGAAA

SEQ ID NO:2215: (Length of Sequence = 378 Nucleotides)

CACACATCCT CACCCACAG AAAGTGTCTG ACACACTGAA GAACTGAAT AAAACAGATG AAGAAATAAG CAGTTAAAAA
AATAAGTOGC CCTTCAAAA CACGNCCCCA TCCACAGCG CTCCGAGCT TCCCACCACC GCGCGCTCA GTTCTTTTC
GTCTGTTGCC TCCCAGCCC TGACGCCCCT GGCTGGCACT GTTCCGCTG CATCTCTGTG TTCAGTGATG CCTCTTCTT
GTTGAANCA AAAGAAATA ATGCATTGTG TTTTTTAAA AAGAGGTATC TTAATACATN GTATCCTAAA AAGAGGAGCT
CATGTGGCAA TTGGTGACA GCAGGAGGAA ATTTCTTGGG ACTTNTTTAG GNTGAATT

SEQ ID NO:2216: (Length of Sequence = 428 Nucleotides)

GAACCCACAC TGGGGAGAAA CCATATGAAT GTAAGGAATG TGGGAAAGCC TTCAATTATT CCAACTCATT TCAGATACAT
GGAAGAATC AACTGGAGA GAAACCCTAT GTATGTAAGG AATGTGGGAA AGCCTTCACT CAGTACTCGG GCCTTAGTAT
GCATGTACGA TCTACAGTG GAGACAAGCC CTATGAATGT AAGGAATGTG GGAAATCCTT CCTTACATCC TCACGCCCTA
TTCAACATAT AAGAACTCAC ACTGGAGAGA AGCCTTTTGT ATGTGTTGAA TGTGGGAAAG CCTTTGCAGT TTCCTCAAAT
CTTAGTGGGC ATTTNAGGNA CTCACACTGN AGGAGGAAGG CCTCTGAAGT NTNAGATATG TGGGGNAAGT ATTTTGGGNG
ATCCCCCAT GTCTTTAATA ATCCCCAT

SEQ ID NO:2217: (Length of Sequence = 408 Nucleotides)

GTCATCAGAG TTCATCGTGA ACACCCGTGA TGCCGGCTCG GGGGCTTGT CTGTCAACAT TGATGGCCCC TCCAAGGTGC
AGCTGGACTG TCGGGAGTNT CCTGAGGGCC ATGTGGTAC TTATACTCCC ATGGCCCCTG GCAACTACCT CATTGCCATC
AAGTACGGTG GCCCCAGCA CATCGTGGSC AGCCCCCTCA AGGCCAAGGT CACTGGTCCG AGGCTTTTCC GGAGGNCACA
GCTTINACGN NACATCCAG GTTCTTTGTG GGAGACTININ TACCAAGTCC TTCCTTAAAG CCGGGGGCTT TCAGGTTACA
AGNTTCCATT CCCCAGGTT TTTCTCTCAA AATNNCCAGC AAAAGGTGGG TTGACTNGNG GGCCCCINGG GNTTTTCCCA
GGGCTTTC

SEQ ID NO:2218: (Length of Sequence = 316 Nucleotides)

TTTACAGAAT ATAGCTTTAT TTATAGAATC TTACAAATAA AACATTTACA GTCCACATAA GTTAATTINC TTTTCTAATT
TCTTCTATA CACCTGAGTT ATTTAAAAA ATACTGTGAT GGAAGTGCAG AACTGTAAAG GGAAATAAGA ACAATAAAAT
CCTAACCTCT CTGCAAAAA TCAGACAACCT TTGTTTAAA GTAGATGCCC AGCATATTGC CATCTCTTTG GAAGAGGACT
TACTATACTC AGCTCTTACG NTACCCAAAC AGAGAAGCCT TCTTTTAAA ACCCAAGGTT AAGGGCCCAG TGAAGG

SEQ ID NO:2219: (Length of Sequence = 319 Nucleotides)

GGCTTCCTGT CCCACAACCT TCTACCGTGG GCGCCTGGAC ACAGCAGCCA CCACAGTCCA GGCTGCAGG GCAGGGTGTG
ACCCTGCCCG GGCAGCCACC CCTCCCTGAG AAGAAGCGGG CCTCGGAGGG GGATCGTTCT TTGGGCTCAG TCTCTCCCTC

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CTCCAGTGGC TTCTCCAGCC CGCACAGCGG GGAGCACCAT CAGTATCCCC TTCCCAAATN TCCTTCCCGA CTTTTCOAAG
GCTTCAGAAG CGGCCTCACC TCTNGCCAGA TAGTCCAGGT GATAAACTTT GTGATGTGA AATTTTGTTT AAGACACTT

SEQ ID NO:2220: (Length of Sequence = 343 Nucleotides)

CTGGCTAACA TGGTGAAATC CGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA
GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC
CAGCGTCCCC TCCAGTCTGC ACGGGGCACT CCTCCTGGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC
CCTCTATCCC TCCCAGCACC TACTACATCG NCCINACAT CCCTGATTCC TGTGTGTATG GGAAACTNNT NCCAGAGATG
GAGGTTCTCT CGGAGTATCT CGG

SEQ ID NO:2221: (Length of Sequence = 373 Nucleotides)

CTCTGTCTCC CAGCCCGGAG TGCAGTAGCG CAATCTTAGC TCACTGCACT TTTGACCTCC CAGGCTCAAA TAATCCTCCC
GCCTCAGCCT CTAAGTAGC CGAGACCACA GCTGTGCGCC ACGACATCTA GCCAATTATT TGTTTTGTGT AGAGATGAGG
TCTCACTGTG TTGCTCAGGC TGGTAGGTG TCTAACTCCT AGGCTCAAGT GATCCTCCCA CCCCAGNCTC CCAAAGTGCT
GGGACTACAG GCGTGAGTCA CCGCGCTGG CTTTGTTTAA GGCATTCCTT TTCCGCAGCA TCTGTACCA GCAGCCTGAA
GNCATTTCTA TAAACAATTA TCANGGAAGA CACATGGGNC AGAGACCCTA AAT

SEQ ID NO:2222: (Length of Sequence = 197 Nucleotides)

GTCTCTGTA ATTCCCCAA ACCGGTCTT GAGGATGTGA AACCAACTTA TTGGGCTCAA TCCCATTGG TCACAGGATA
CTGTACGTAT CTNCCTTTCC AGAGATTGTA TATCACCAG ACACCGCCAG CATACTAAA CGTGTACCA GGTGTGCCCC
AGTACACCAG CATATATACA CCCTGGCCA GCTTTT

SEQ ID NO:2223: (Length of Sequence = 280 Nucleotides)

TTTTTTTTT GCATTTTAG TAGAGACGGG GTTCACTGT GTTAGCCAGG ATGGTCTCAA TCTCTGACC TCGTGATCCA
CCTGCCTCAG CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGCGC CCGGCCAACT TTTTGCAATG TTTCTTTAA
ATTTCTCTAC TTTTAATTGT ACTTCTAATA CAGACACTTC TGAAATCAGT TTTCACATG CTGCAGCCTT ACCAATTGT
AGANACTGTT TATGTGATGT TTTGATTCTT CATTTATATA

SEQ ID NO:2224: (Length of Sequence = 388 Nucleotides)

GATTGCAGGC ATGAACCACT GCGCCAGTC GAGTGGTAAT ATTTTGAAAG GAAACCTTTT TCTGAGCAGG TCTCAAAGA
GAGGTTAAAA TACTGAGTAG ACCATGCTGT AACAGATGT GCTGTTATTC GGGCTTTGAT ATTCCATTTA TAAAGCACAG
GCAGAGCTCA GAGTAGATTT AATGTAACTC TGAAGGGCAC TAGGATTTTN AGAATGGTAA ATAAGCATTG GCTTCAACTT
AAATTCAAAT CTGCATTGGC TTGTAATAAG AGACTAGCTT GTTACTGAAG CTTTNAAGCC AGTTGTTTTT TCCTATCTAG
CTAGGAAAGT CCTAGATGGT ATCTACTTCC AATAAAGGC TGTCTGGCC AGGCGCGTG GCTCACGC

SEQ ID NO:2225: (Length of Sequence = 420 Nucleotides)

GGTCGAGGAG CTTGGGCCG GCGGGCGGG GACTACTCCG GAGTCAGGAG GCAGCAGNGG CGGAGGACGA GGATCTCTGG
CAGTCAGCGC CGCTCGGACG CCGCCGCAC CATGGGCTGC TGACCGGAC GCTGCTCGCT CATCTGCCCTC TGCGCGCTGC
AGTTGGTCTC AGCATTAGAG AGGCAGATCT TTGACTTCCT TGGTTTCAG TGGGCGCCTA TTCTTGGAAA TTTTCTACAC
ATAATAGTTG TCATATTGGG TTTGTTTGGG ACCATTCACT ACAGACCTCG ATACATAATG GTGGACACCG ATCTAATGAC
ATTCAATATC TCTGTACATC GGTCAATGGT GAGAGAACAT GGGGCTGGT TGTNTCAAGA AGAGTGCTGC CTTCCCTCAA
GCCCCATGGC ANNGATGGAC

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SEQ ID NO:2226: (Length of Sequence = 264 Nucleotides)

GTACCTGCTC CCTGCCGGCA CCTTTNTTGG TGGATATTTA GCTGCCCTCT ACAGTGGTTA TAACATTGAA CAGATCATGT
ACCTAGGCTC GGGTTTGTNC TGTGTCGGTG CCTTGGCTGG CCTCTCCACC CAGGGAACAG CACGTCTTGG CAATGCACTG
GGCATGATTG GGGTTGCTGG AGGACTGGCA GCCACCCTCG GAGTCTAAA ACCGGGCCCCA GAATTACTAG CTCAGATGTC
TGGAGCGATG GCTTTGGGTG GTAC

SEQ ID NO:2227: (Length of Sequence = 402 Nucleotides)

AGAGGATTGG GGCCTGGGG CAGGGGCGCT GGCACATTCC TCAGATTCTG GCATGTCATC CTGGAAGTAC TCAGCCTGGC
GGTACTGCCA CAGACGCAGG TTCCCGTCCC ACGAAGTCTG GACAATCTTC TCTTCAAAGG GGTGCCAACT GACGTCAACG
ACACAGGCCT TGTGGTTGGT CAGCTCTTTC ACAATGTGGC CACTTGAAG GTCGTACACA ACCACTTTGC CAGTGGAGCA
GCCACTGTAG ATGAAGTCTG GGCCAGTCT ATGAATGGG GAGAACCGGC AGCGGATGAG GGTGTGCAGC ACTCCGTGGC
CCCGGTAGGT CATCAAGGAG CTGTCCCTG GGAGCTTCAG TTTCGCCAG GCTTTTTTNG GGCATTCTT GCCACCGATA
GT

SEQ ID NO:2228: (Length of Sequence = 394 Nucleotides)

TTTAAAGTGG AAACAATGTT TTTAAGAGGT GATATAAAGA AATGCCCCCA CTGTAATCCC TACCATATGT TGATTCTATG
TGGTGGGAGG GAGGGGAGAA TGATTCTTT TTCTAGAATC AGAGAATTG GAAAGTATCA AGAAAGATAA TAACAGAAAG
CATGAAATAG AGTTGTGCTT TGAAGATGAA TTGGATGAAA TTNTATGTG AAGAGGAGTT TTCCAAAGTT GCAGACCCAG
GATTCCTGGC CAGAAGCATG AAAACGTTTC TTCTTACTG TTCTTAGGAC CTAGGCAGCA TTTCTTCCAT GTCGTCAACA
ACATAAGAAA CAACAGCCCA AACAGCAGCA GCAACATTCA TCTGCTTTGG ATCCCATGGA CAGTCATGGT GTCT

SEQ ID NO:2229: (Length of Sequence = 342 Nucleotides)

TTTTTTTTAG GATGATTGAG TGTTCCTTA AAAATAAAAA CCCCACAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA
GTGTAACAGG TIAGCCATTA ACACAGAATA AAGAAGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGCCT
GGTCGGCCGA CGTCACAGT GATGGCCCTG CGTGGCTGGG ACACAGACAG GGAGCAGGCA TGGCACCTGC GCCACGCAGA
GCAGCAAGGC TGAGCATGAC CACTGGAAAT AAATAAACAT GGTGCCGACA GCATCTTTGA ATTAGTAAGA CGTTAGCACA
AAACAAAAAA GCACAACGAC TG

SEQ ID NO:2230: (Length of Sequence = 357 Nucleotides)

GTGGAATGCA GCCATCACAC AGTAGTTTCT GAGATTGCTT CCGTCTAGGT TTTATGGGAA GATATTTCTT TTTCTACCAT
AGGCTTCAAG GCGCTCTAAT ATCCGCTTGG AAATACTACA AAAACAGTGT TTCAAACTG CTCTATCAA AGGAAGGATC
CACACTGTGA GTTGAATTCA CACATCACAA AGAAATCTCT GAGAATTCTT CTGCTGGGT TTATAGGAAG AAATCCCGTT
TCCAACGAAG GCTCAAAGC GGTCCATATA TCCACTTGA GATTCTACAG AAACAATGTT TCCAACCTGC TCTATCAAGA
GGAATGTTGC ACTCGGTGAG TTGAATGCAC ACATCAC

SEQ ID NO:2231: (Length of Sequence = 304 Nucleotides)

AAGAGACGAG GTCTCACTTT NINGGCCAGG TTGGTCTCAA ACCCTGGTC ACAACAATC CTCCAGCCTC ANCCTCCCAA
AGTGCTGGCA TTACAAGCAT GAGCCACCAT GCCAGCTTA AGGGGGATAT TTTTATAGAG CATCTTGCCC TGGTTCTGGA
ATTCTCTGTA GATAATACAG TTAACAGATA TTCCCCTAAG TGATTAGAA CCTTCCATT TGAATGATTT TNCAGAAAAG
TTTACCTATG TAACCTCAGT GGGTAGCACA ATGCCTGACA CATCTTTGNA GCTCAAATGT CTCT

SEQ ID NO:2232: (Length of Sequence = 354 Nucleotides)

464

CCTGCCACTG AGGCAGGTGC GGCCCCAGGA CCATCACCAG GAATGCNAGG CCACCCTGGA CCAGAGGTAG GAGCCCAAGG
 TCCGGCCCTT GCTCTTTGAT TGTGGGCAGC CTCCTGCCCT CTCGTGGTCT CAGTTGCCCC ATCTGCAGAG CGAGGAGGCC
 CGGGCTGGTT GGTCTTGAAG GCCCTTTTCC ATGCCGACAT CATGTCACTC TAGGCCTGGG GTTCAGTTTC CTGTGGCTGG
 TGATGCTGTG GTTAAGTTTG CTTGACCCCA GCAGCCCGAG GGA CTGTCTG AGTCACAGCA CAGCCCTAT TCGTGGCTG
 CTGGTGTGTG GGGTCAATTC CAGCAGATGA ATGT

SEQ ID NO:2233: (Length of Sequence = 414 Nucleotides)

CCCAAAGCCC GCACGATGCA GGCCACTNCG ATTCCACCAA GATGGACTGT GTGTGGAGCA ACTGGAAAAG TCAGGCTATT
 GACCTGTGTG ATTGGCGGGA CATCAAGCAG ACGGGCATCG TGTITGGGAG TTTCTGCTG CTGCTCTTCT CCTTGACCCA
 GTTCAGCGTG GTGAGCGTGG TGGCTACCT GGCCCTGGCC GCACTCTCAG CCACCATCAG TTTCGCGATC TACAAGTCTG
 TTTTACAAGC AGTCAGAAA ACCGACGAAG GCCACCCCTT CAAGGCCTAC TTGGAGCTTG AGATCANCCT TTCTCAGGAG
 CAGATTCAGA AGTACACGGA CTGCTCTGCA GTTCTACGTG AACAGCACAC TTAAGGAAGT NAGGAGGCTC TTCCTGTGCC
 AGGACCTGGT GGAT

SEQ ID NO:2234: (Length of Sequence = 394 Nucleotides)

ATAATCCGAG TGCTCCATCT TCAGTGCCAT CTGGACTUCC ACCAAGTGCA ACACCCTNCA NTGTGCCTTT TGGACCAGCA
 CCAACAGGAA TGTATCCCTC CGTGCTCCC ACCGGACCAC CTCCAGGACC CCCAGCACCC TTTCTCCTT CCGGACCATC
 ATGTCCCCCA NCTGGTGGTC CTTATCCAGC CCCAACTGTG CCGGGCCCTG GCCCCACAGG GCATATCCTA CACCAAATAT
 GCCCTTTNCA GAGCTACCCA GACCATATGG TGCACCACA GATCCAGCTG CAGNTGNTCC TTTAGGTCCA TGGGGATCCA
 TGTTTTINIG ACCCTTGGGC GNCAGGAATN GGAGGGCAGT ATCCTACCCN GTAATATGGC NATATNCATN TNCA

SEQ ID NO:2235: (Length of Sequence = 376 Nucleotides)

CTGATATGAT GACAATAAAG GAGTATGCTG CTGCTGTTC GCTTTGCGTC CTCGCTACAA ACGCCTGGTG GACAACATAT
 TCCCTGAAGA TCCAAAAGAT GGCCTTGTA AACTGATAT GGAGAAATTG ACATTTTATG CAGTATCTGC TCCAGAGAAA
 CTGGATCGAA TTGGTTCTTA CTTGGCAGAA AGGTGAGCA GGGATGTTGT CAGACATCGT TCTGGGTATG TTTGATTGC
 TATGGAGGCA CTGGACCAAC TTCTCATGGC TTGCCATTCT CAAAGCATTG AGCCATTTGT AGAAAGCTTT CTTCATATGG
 TGGCAAAGCT GCTGGAATCG GGGGAACCAA AGCTTCAAGT TCTTGAACA AATTCT

SEQ ID NO:2236: (Length of Sequence = 399 Nucleotides)

TGGCAAGAAC ACTGAAACCC AGCCAACTTC TCCTCAGCTA GGGACCAAAA CCTTTTGTG TGTAGTCCTT CCGAGGTGG
 AGACTCTTCT GCAGCCAAGG AAAAGGTGCG GGAGACATGC GGAGACTCCG AGGTGGAGGA GGAGTCCCCA GGAAAGCGCC
 TGGACGCAGG TCTACCAAC GGCCTTGGGG GTGCGAGGAG CGAGCAGGAG CCGGGCGGCG GCCTNGGGAG GAAGGCCACA
 CCCCAGCAGC GCTGTGCCTC CGAGTCCAGC ATCTCCTTCA GCAACAGCCC GCTCTGCGAC TCGAGCTTTA ATGCGCCCAA
 ATNIGGGCGG GGGCAAACCG GCTCTTGTGC GACGGCACAC GCTTGGAGGA CCNCAGTNAG CTGATCTTCT GCATCGAGA

SEQ ID NO:2237: (Length of Sequence = 234 Nucleotides)

AAANTACTAA CATTTTTAAT ACAGTCTGAT CAGATCAATT CACATCACAA GGTCAACCGG GGCTTGCTCA CATGTGNCAC
 AACTGAGGNA CACAATGTCC CTACCTGCCG GCTGTCCAC CTTCCTGGTT CCAACAGCA TTGAAACCCC CTACTTCCCT
 GACCAGACTG GCATTTTTTA AAATTTTGCA TAAACTATT TCTTCATAG NCTTCAACA ATCAACTAGC CAAG

SEQ ID NO:2238: (Length of Sequence = 369 Nucleotides)

465

ATTTAAGGCT GTACTTAACT AATTGGGCT GAGGATGAAT ATATCAGCCA CAGCACATTA AAGAATGAGC CAAGGATTTG
 TCATGGTTGG TCACTTTTTA AAGTATTGA TTAGTGCAAC TGGAGAATGA AAAGTGATA TTGGTGACGC CAACCTCAGT
 TTCTGAGCAC TCCGTCTCTG TGGTGAGAAT CAGACAAAAA TTATCGGGG TGAAAAAAA AAGGCATTAC CTGATTACAC
 CCTGTGCTT GCTAGCCCTC TTCCATTCTT TCTCACACA GCATTTGCT CTGTAAATC CTCTCTCTGT CTCAGACCAT
 TGCTTGCCCC TTCAAAGGT ATGGTTCAGG CTCCTTTCAA GACATTTGG

SEQ ID NO:2239: (Length of Sequence = 399 Nucleotides)

TTAATATAAT ATTCAAGTCT AGCATTGCT ATTTACAACA AATAAATATT GCCCTCCCC AATCAGTAAA CAAACATTTT
 TTTTTCTTT TTGCTTTTTA TACAAATATT CAATCACCCC ACCCCCACCC CAAATCCTCC TTCTCACTA ACCCCCGTCT
 TGCATGGTCT CGTAAAGCCC AGGACGCAGT GGTGAATGGC ACTTGCACTG GCATGAGATT CAACATCGAT GGGACTCAGC
 TGGGACTGTC CTCCTCACC GGGTGAGAG TCTGGTCCAT GAAGAGGGT TCTTCTCTG CTCCAGGGG AGGGCTGGG
 TAAGCGGTGG GTGAGACTCC CTCCTCTCA GTTGGNCTG ATGATGGAAT CTMTNGTGA GCCTGAGAAA GGCTAGAGT

SEQ ID NO:2240: (Length of Sequence = 388 Nucleotides)

TTTTCAGAAT TCATCTCTGA CTMTAATGGC TTAAGCAAGA ACATGGTTTC CGTGGCTCCC CCTGGACTGA ATGCTGGAGG
 ATATATACTT CACAGTCTGA GGCCTGGTCC CAGGAAGTGC AATCTAACAG GATGGCAAGT GGTTTTGAAA CATATAGATT
 TTCAGGATGG AAGTTTGATT CTTCAGATTG TGACTCATCC GTGGAATAA AATGGTTTAG CACCTAAATC TGTATATTCC
 CATCAGTGGC TTGGCTGACT CAGTTGTAAA TAGGGTACCC TCCATCTGTC TCCCACCCAT ATGCTCCACT GTCCCCAGGG
 CCTCAGTGCC TGANCCCTAG GGGGATTGCA GTTGGCTGCT GGATTCATTT CCTGCAAGCA GGCCTGCA

SEQ ID NO:2241: (Length of Sequence = 377 Nucleotides)

CTCCATTTTG TCCTAGTTAC TTTAAGGTA TAAGCTGAAG TCATTGATTT GAGATGTTTC TNCCTTTCTA ATATAGGTGT
 TTAATGGTAC ATATTTCTCC CTAAGTACTG CTTTAGTGGC ATCTGCAAA TTCGACATA CTGTGGTTCA TTTTAATTCA
 TTACAAAATA CTCTTAATT TCCCTTTTGA TTTCTCTTT AATTCATGGG TTAGTTAGAA TTGTGTTATT TAATTTCNAA
 GTACTTGGG ATTTATCTCT CTCTGTTATT CATGCTAAT TTAATCCAG TGTTGCTGA GAATATATTT NGATATCAAT
 AAAGCTACTC CAGCTACCTT TGATTAATG TTATCACAGT ATATCTTTTT CTATCCT

SEQ ID NO:2242: (Length of Sequence = 381 Nucleotides)

CCCACATTAA CCAAAACAC ACACACATGA CAAACTCTAA GTCTCCAGAC AGACACCTC AAATAGGCAC TTGGTGTGTT
 CAGCTGGGG CTGGAGAGAT CTGGGGCTTT GGCCTCCAA GGNAGGAGCT GCTGTCCCA GAGAGGAGAC AACAGCTTCT
 GGAGGCTCTG GGGACTCATT GGATGGGTAC TGGCTAGGTA GATGGGAAGG GGGCTGTTT AAAGAAGACC CCCCACCCC
 ACTGCCCCATT TCACCACAAC AGTGACTTGC TGGAAGTTT GTGCCCTGCG GATTCTGAA TATAGTGGAC AGGCATTTCT
 AAAGAGCGCA TCACTGAAGG GGCAGAGGCT NGCCTTTAA TGTTGGCTTT GCATGTTTTG G

SEQ ID NO:2243: (Length of Sequence = 359 Nucleotides)

ACCATTTATT AAATCAGACT GTTATCTTA ACAGTTATGT AAGTTACATG TATGTTAAG TCAGAGTATT TCACATGGAA
 AAGTTTTTAA CTCTATAGG CAAGCAAAAT CATATCACAC AATATATAAG TGGGAAGGG ATACTGCTAA ACATTCAAAT
 AAGGCAAGTA TATAAAACCA ATAAACAAT AATGAAAAA TTCAAGCATT CTTTAAGAG AATTCAACAC TACAAGCTAA
 ATGTACTTTC TGAGTGTATT CGTATAATCA AGGCAGTGT TCTCCTTTTA AAACATCAGG AAATGGAATA AGGCTCATTA
 GTAGATACAG CTGCCCTCAA GATTTCAATT TCAGTTTC

SEQ ID NO:2244: (Length of Sequence = 362 Nucleotides)

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ATATGTACTA CATTGGTGG AATACGCATG TACAATTCTT CAAAAATAGT AAAGAGCAAA ACAAACAAAA AATAGTAGAA
 GCACTGGAGA AATACACTAT GGCATAAACT AGTTACGGGT GGGATGTCAC ATGGACCATA TCTACACTCT GTGGCAACCT
 TCTTACCTGA CTCCAAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTTCATAT
 CCTAAGCAIT TTATTTTAGC TCAAAATATA AAATATTCAT CAGTTAGCCA AGCTTTGGGA TGAGAGATCA TAGCCTCCTC
 TTTGATAGGN GTTCTTGTT TTCTTGATT CATGTTTCAG AG

SEQ ID NO:2245: (Length of Sequence = 333 Nucleotides)

AAGGATCTGA GCGAGTTCAG TGTATTGTG GGCAACGGG AGATTAGCT GCCAGTGGAG ATCAGTGGGG CCATCGAGGA
 GGAGTTCACCT GTGGCCCGAC TCTACATCAG CAAAATCAAA TCAGAAGTCA AGTCTGTGGT CAAGCGGTGC CGGCAGCTGG
 AGAACCTCCA GGTGGAGINT CACCGCAAGA TGAAGTINAC CGGGCGGGAG CTCTCATCCT NCCAGCTCCT CATCTCTCAG
 CATGAGGCCA AGATCCGCTC GCTTACGGAA TACATGCAGA GCGTGGAGCT AAAGAAGCGG CACCTGGAAG AGTCTATGA
 CTCCTTGAGC GAT

SEQ ID NO:2246: (Length of Sequence = 347 Nucleotides)

AAACTAGCTT TGGTGGGAAC TCCCTACCC CTGCTCCCCA CAGGAAGGCA TTAATCTATT TATGAGGGAT CTACCTGCTA
 TAACCCAAAC ACCCCACCAG CCCCCTCTC CCAACACCAC CACACTGGGG ATTAAATTTT AATGTGGGAT TTGGAGAGGA
 CAAATATCCA AACCATAGCA GTCTTAAAGT ATTTAAATTA GAATTTAAAT TAAAATTTAA ATTACAGTAT TTAAATTAGA
 ATCAATTTGTG GAGTTTCTAA AAGGTATGCA TTCCTAGGCC CCTCTCAAGT TAGATTTATG GACACTGATC CCCAGTCTGG
 AATTTTAAAA CAGCAAAATC TCATACT

SEQ ID NO:2247: (Length of Sequence = 357 Nucleotides)

CACAGGACAT GCTCCGTCAG CACAAGCACT CCCAAGTCAA TCTGAAAAGC AGGCAGCAGC ATTGCAGGGG ACAGGTCCTC
 CCCTGATCTG GGTGGTGGTC TTCTCCCACT TAAAGCACTA TATACAGGGG GAGGTCCCAG GCTGGACATC TTTACCAGGG
 GCTGGGAGAA AGCAGGCCGT GCTCTGTGGT CTCAGAGTCT TCCTGGGCGT CTTTGGAAAC TGACAGAACA TGACCTCAGT
 CCCAGCCAGC GAGTGGCAGA GAGGACTTTG TACTTGGCTG CAATAAAACA TGCCCTTCCT CGCAGAGACA CGAACAATCT
 CGTCTCTACC AGAGGCCTGT GAGACATCAG CTCAGGA

SEQ ID NO:2248: (Length of Sequence = 327 Nucleotides)

TTCTCTTTAT TAATGGCTAG AAAGTCAGGT TCACCCAAGG AAGTCACTGA GGGGCCACAG CATTGAAGGG TATGGGGTTT
 GGAGAGATAG GAGCAGGACC CACCACTCAC GTCCAGAACC CAGGGGGCAC ACCTGGTCCA AGAGGTGGAG GCATTGGTCA
 CTGGAGTCAC GAGGGTCAGG ACAGGCACTG AGAGGCTGAG GGAGTNTCGG TCCGGAGGGA GGCAGTCAGG GGCTAGGGCT
 GGGAGTCGTA GCCAGTNTGC AGGGCCTGGG AGCCCCAGGG CTGATGCCCT GGGCTGGCGT AGTACTCCAC CACCTGCCGT
 GGCACCT

SEQ ID NO:2249: (Length of Sequence = 404 Nucleotides)

ATTTTAAATT TAGGTTTGTT TTATTTAAGT TTAATGTAA TTCCATGCTG TGTTCAGTA AGAACAATAC AGATTCTGTA
 TCTGTGGCTC CAGTCAGATA TCCAGTAGTA CAAATTAGCT TCAAGTTACA CATACTGAAC AAAAGAGGTT GAGCGAGCGA
 AGGAGGGGAG GAGTGAGGGG AAGGAGGTAG GGGGAGGGG AAGGAGAAGA AACAAAAGNN TTGAACAGGC ATGCAGGCTT
 TTCCATACCA CCTTCAACGC TAACCTGCTT CAGTGGGAGA GTAAAGTAGG CAAGANTGAG CAGCCACGGG ATTGTTGAAC
 TGTTACCCAG CACCATGCTT TTCAGCAACA TTTTCAGCGG AGTTTGGGAA CATTTTTTTA CCAGCAAAAA CCATTACACC
 GAGT

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SEQ ID NO:2250: (Length of Sequence = 275 Nucleotides)

TGCCAAATAT ATATATCTGA ACATAGTGAA AAAGTAACAT TTAAAATCAG TCAAATTATT TTTAAAATTC CTTTGCTTAA
TAGCCATTAC TTACTCACCT TTGTTTTTGG TTTTINCCTT CAACTACTAG AGTACTGTAC TTTTGCTTTC ATTCCCTTCTA
TACATTCTGC CTTTCATCCTT AAATTGTTC AACTCGATAGT GCTAATATTG GTAGATAATC TACGCTAGCT GCTGTTTCTT
GTACAGAAGT TGGTTGATAT CGCTGATTCA CTTTT

SEQ ID NO:2251: (Length of Sequence = 426 Nucleotides)

GGAATAAGGA GATGAGAGCA TGCTCTGCCA ACTGGCTGGG ACCTGAATGT GCTAGGCAAG TNCCACTACA TCAGCTCAAG
AACATAAACA AAAATGTAAT TTA AAAAACA GATGGTTTAA AAAATATCT GATAAAAATT ACCIATCCCT CTCCTTGCT
GTGAAATAAT TTAATAAATT TATCTAGAT GTAAAAATA TAATACAAA AAGTTTGTTT AAAGACACCT GTGTCCTGTT
TGTTAAGTGT GCAGTCTGGG TCCCTTGGGG TGGAGGGAGC TGGCCAAGGA ATGGCATTGT GCAGAGGCAT ACCGGGAAGC
TCTCTGGATG CAACCCACC TCTACCGCTT GGCAGTCAAT GACCTTGGGC ATGATGTTTC TTCATTCTC TGAGGGCTAG
GGCTTTGATT CTGAACATGG GGGGCT

SEQ ID NO:2252: (Length of Sequence = 315 Nucleotides)

GAAAAGATAA ACAAATTAA TAGACCATTG GTGAGATTAA CCAAGACAAC AGGAAAGAAG ATCTTAATAA GCTCAATTAG
CAATGAAATG NGAGCTACTA CAACTGATAC CACAGAAATA CAAAGATCA TTCAAGGCTA CTATGAACAC CTTACGTC
ACAACTAGA AAACATAGAG GAGATGGATA AATTCCTGGA ATTTTAAGAN TAATACAATG GACTTTGGGG AATCAGGAGA
AAGGGTAAGA GTGGGGTGAG GGATAAAGA CTACACATTG CACACAGTGT AACTTCTTG GTGATGGGT GCGCC

SEQ ID NO:2253: (Length of Sequence = 335 Nucleotides)

AGATTTATTC TCATGTACAA AGCGGTCAGC CCACGGGACC ATATACGACA GTTGACAGA GTCTAGAAA AACGCATCTN
TCTAAGGCA ACTCAGAAAG GTAAGGCAGG TGGACCCCT CCCCCACCC ACAACGCACA CAGAATGAAA CGGAGAAAAA
GAGAGAAGCC AGTGGCCGGG CTGACCCAAG AGTCCCGGCC CTATGGGGTC TCCCAAGCCC CAGGGCACAG GTGGATATGG
CCTTGAAGAG AGAGCCCTGC CAGGGCTNAG GCCAGTCTC TACTGGCTG CAGGAATNGG TAAGGGGCTC AGGCCAAGG
GAACACTTCA GGGG

SEQ ID NO:2254: (Length of Sequence = 380 Nucleotides)

GGAAGGCTCT GGAGAGGTTT CTGAGGATT ACTTTGATGG CAATCTGAAG AGATACCTGA AGTCTGAACC TATCCAGAG
AGCAATGATG GGCTGTGAA GGTAGTGGTA GCAGAGAATT TTGATAAATA ATATACAATA ATCAGATCCA CTTTCCACCA
CCTACACAAA AACATTTCA TACAGACTGC AGTACAGTGA TTTTITTTTA TGAATAAAA GGTCAAAATT GTTTCATTTT
CTCTCTGCA GATTCTAAGT AAAAAATGAC AAAATATGCA TAGAGATGTT GTTAAACCAA AAATAAATGT CTAGGGCCCC
GAACCATCT GAATGGGACC CCTCCTCTCA GCCAAGGGCA TTCCAAAATT AACCTGCAAA

SEQ ID NO:2255: (Length of Sequence = 399 Nucleotides)

ATATAAAAAG TGTTTCTGTG ATCTINCAGA GCCCAGGAGT CAGTGTGGT GGTGGAGGG ACCTGCCCCC ACTGGTTTCA
TTAACCTCT GTCTCGGTGC CCTCAGAAC TCAGCCAGAA AGGCAAGGAG GAAATCAGAG CAGGAGCCTC ATACTCTTG
TGATCTATT ATCTGTGAC CTCAGGGGTC ACATATAAGG TCAGTGTTC TGTCCCCGC CGGATCTGCA CTGCCAACTG
GGATTGGGTT CGAACAGCTT CATAAACATC TTCAGCATTT TGTACCATCT GCTCCCAAT GGCCAAAATC ACATCACCAG
GNOGCAGACC CAGCCCGGTG TGCAGGGGAG CCCAGGATGA CTTTATGGGA TGAGTACANC ATGCTGAACA TCGGGNAAG

SEQ ID NO:2256: (Length of Sequence = 371 Nucleotides)

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TTTTTTTTTT TAACTGTAAA TGCTATTTTA TTTTAAACAT TTTTGTTTAC AAAAAAAAAA AAAATCAATG ATTGGTACCT
TTTTTACACT CTCAGATTCC TGAATATGGA CAGATCTTCA AAGGGAGGAA GGAGTTCTCA TATGAAATTT AAGATAGACT
GTCTGAAGG TTGTGGGGTG GGGTTTTTTG TTGTGTTTTA ATTCGCTTTT GTTTTTAAGN CACAATAAAG CTAAAATGTC
AAGTCTCTGG GAGAGATCCC CTAAAGTTT CAGTCAAGGA GCATATCAGA GCACAGACAA GENGACCCCA GCGTGGTGCC
CGCCGGCCCCG TCCCGGCTGC CCAGNGTAT TTGGTAGCGC ATGGGTTGAG A

SEQ ID NO:2257: (Length of Sequence = 372 Nucleotides)

AACTCTATGG CACTAATGTA TGATGGATTG ATTTCCAGAC TGTCGGCCAC GGAAGCACTT CTTCATGGCC TCTGCCCTGG
ACAGCAGCCT GTCTCCGGG CTCCCATGT TTTTACCAGC TTCTGCTGAG TTTCTACAAT CTTGAGCTCT GCTGAGAATT
CTTTTCCTTG AAATTTCTTCT ACCTAAAGCC CCAGCCCCCA AAAGAGCATG TCTCAGGAAC TCATTATGCC CTGAGTCAAC
AAGAACTTGT TGATAAATGG CTAAAAGTT TTTACAAGAA GTAACCTCCC TTGGTAAGGA GTAAATAATA GCTCTGGGAA
TTTTCCAGAT AAACTATTT CATTTCTCTG GTCAGTGGCC CCATGGGGAG AG

SEQ ID NO:2258: (Length of Sequence = 340 Nucleotides)

CTCAGCCTCC TGAGAACCTG GGATTGCAGC CTCCCGAGAA CCTGGGATTG CAGGCACCTG CTGCCATGCC CAGCGAAGAT
TTTGATTTTT TAGTGGAGAC GGGGTTTCAC CATGTTGGCC AGGCGGGTCT CAAACTCCTG ACCTCGTGAT CCACCCGCTT
TGGCCCCCA AAGTCTGGG ATTACAGGGG TGAGACACCA CGCTCGGCTT TTATATATAT TTTNAGAGAG GGGTCTCAT
TTTNTTGGCC AGGCTGGTCT TGAACCTCTG GGCTCAAGCA ATCTTCCCGC CTCAGNCTCT CAAAGTGCTG GGGATTACAG
GCAATGAGCC NACCGTGNCC

SEQ ID NO:2259: (Length of Sequence = 394 Nucleotides)

CCCCCAGAT CCCACTGTTA GGAGAACGCC TCTGCTAACA TTTTCTCTAT CTTGTTATCC TCTGGGAATG AGACCCACTA
AAGGGCTAGA GTGTGCTCA GTGTGAATTC CTCTTTCTCG ACTCCATCTT CGCGGTAGCT GGGACCGCCG TTCAGTCGCC
AATATGCAGC TCTTTGTCCG CGCCCAGGAG CTACACACCT TCGAGGTGAC CGGCCAGGAA ACGGTGCGCC AGATCAAGGC
TCATGTAGCC TCACTGGAGG GCATTGCCCC GGAAGATCAA GTCGTGCTCC TGGCAGGCGC GNCCTGGGA GGATGAGGCC
ACTCTNGGCC AGTNCGGGT GGAGGCCCTT ACTACCCTGG AAGTAGCAAG GCCGCATGCT TTNGAGGTAA AGTC

SEQ ID NO:2260: (Length of Sequence = 359 Nucleotides)

TTTTTTTTTG AGATCTGAGA TTCTTTAAT CAGAAGCACG TGCGTCCAC AGTGTGCTCT TCAAGCCCCA AAGGGCACGC
CTCTAGGACT GCNTCCTTAG AGCGAGGCTC GGGCTCTTGG TAAAAAAGCA TTTGCTTGAT TTTATTTAAA CAATGGTGAA
TCTTCAAGGT GCCAGTCTAC ATGCCCAACA GTCTCCAGG NTTCAGGNC ACAGTCACG TCACTCAGAG ACTGCCTCAT
TTNGCAAGAG AGAAAAACAG TGACCACCAC AGAGGGCAGG GAGTGACAAA GCTTGTAGGC TAATGCTGCA AAAGCCGCTA
GAAACTGGGG GCCACACACA AGNGCCANC AGGTGCGCC

SEQ ID NO:2261: (Length of Sequence = 360 Nucleotides)

TTTTTTTTTT GAGACAGAGT CTCGCTCTGT CGCCAGGTTG GAATGCAGTG GTGTGATCTC AGCTCACTGC AACCTCGCC
TCCCGGGTCC AAGCAATTC TCTGCCTCAG CCTCTGAGT TGCTGGGACC ACAGGCGCAC GCACCACGCC AGGCTAATTT
TTGTATTTTT AGTAGAGACG GGGTGTACAC ATATTGGCCA GGCTGGTCTC TTCGAAATCT TAAATCCAAA CATTTCTATT
CTCTAGATC CCTTGCTCAG GCGAATCCTT TCATCTTCC CITATAGCTC ATCAGCATGT AAGTGTCTG ACATCTCTCT
TCTCTTCCC TATTAGCTCT CTACTCTCTN CANTTACACG

SEQ ID NO:2262: (Length of Sequence = 348 Nucleotides)

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CTGTCAAAAA TGTATTATAT CAATAATTTT ATCAGCAGCA TTAAAGAAAT AAGAAATCAT TAGACAATAG AAGACAAACA
 TGGTAATGCA GTCAGGCCAG CACACAATAC ACCGTTTTCA TCACACACTG TAACCTGAAT CCCTGGCAAT TTCCTAGAGG
 TATTAAATC ATACCTTATT AAGAATTATT GGGCCCNAGG AGTNGGGGGG TGGGGGGGTT GCAATCTGTC CAATCAACAT
 CTGGCTCTTA CTTTCTCCCN GTAGTATTAC ATTGTATATA TATTCTTATA GGAAACAACT CAACTCCATG TTTATAAAAG
 CACCATACGG TTTTCCATC CTGTACCA

SEQ ID NO:2263: (Length of Sequence = 352 Nucleotides)

CCCCAAAGT TGACATGGTC AATGAAGAAA TAGGCAAACA GCAAAAGTT GCAGTCATAC ACCAAATGAA AGAAGATCAA
 AGCAAAATCC CTGAAGGAAT CCAAGTTGAC TCTGAAGGGC TAATCACCAT AACAATCCC ANTAACCTTG CCACGCTCAG
 TGTTCGAGCC ATGCCCTTC CAGAAGAAGT CACCCAGNTT CTGGAAGAAA ATAGTGANTT GATTCTGTTCT ATGGAGCAGT
 TGACATCCTC TTTGAATNAG GGTGAAAATA CTCACATGAT TCATCAGAAG ACCCNGNGA AAATTTNGGA ATTCAAAGGA
 AACTTTNAG CAACANCTAA CAGGNGNTG AT

SEQ ID NO:2264: (Length of Sequence = 381 Nucleotides)

GCTTACAGTC TAGAACAAGC TTTCCAGCC CACAGCCCAG GATGGCTTTG AATGTGGCCC AACACAAATT CATAAACTTT
 CCTAAACAT TATGAGATCT TTTGTGATT TGTGTTTAG TTTCATCAGCT ATCATTAGTG TTAGTGTATT TTGTGTGTGG
 CCAAGATAA TTCTTCCAAT GTGGCCCAGG GAAGCAAAA GATTGGACAC CCCTGGTCTA GAAGGAAAGG CAAATATTAA
 ATAACCTCAG AAAGTGATAT TACAAATTGT GGTGAGTTAT AAACACACTA TCAGGTGTTA TAAAGGAAGT GAAGGAAGTG
 GTGAGGAAAT TCTTATCAGG GNAGTGATAT TTANATGAAG GGCCTTAGGG GATGAGTAGG G

SEQ ID NO:2265: (Length of Sequence = 301 Nucleotides)

CATCTTCTCT CCAATCCTGCC TTTCCACAGC AGTCAGTCTG GTCCAAGCCA CCATCATCTG TCACCCAGAC TACCATAGCC
 ATCTCTAAC TGTCTCTCCC ACTTGCCGTC TTTATCTGTC ACACAGCAGC CTGAGTTTAT ACACACAGCT GCATTCATTC
 ATATTTTGCT TAAAACTGTT CAATGGCTTC CCATGGAACT TGGGAGTCTG GATATCTTCA CAAGTGTGTN GCATGGCCCA
 GGACCAATCT GGACACCCCT NCCTGTTTGT NCATNCATGC CTTCACCAC TTTTGGCCT T

SEQ ID NO:2266: (Length of Sequence = 360 Nucleotides)

CGCCTGCATG CCCCAACA ACACAACITT ATTCTCTTCC CAAACATCTG TCAGGCCTGG CCTTCTGAG CAGGAGCTGA
 GCAGGAACAG GGCTTGGCTG CCTCTCTCTT GCCACAGCTC TGACCTGGG AAGGCTGGAA GCTGGCATCG TAATGGATGG
 GGGAGTGGGT GGAGGATCTG AGGGTCCCTT GGGTAGGTTT CGATACCTTG GACAGGTGGG CCTCATCTG ACTTAGAACT
 CGGGAGGGG CCACTCTTCC TTCCCTTCT TCCAGCAGCA GCTCCACCAC CCTCCACCTT CTGTCTCGA CATGTGTTCC
 AGAAAACCCA GCCATGAGGG ACOGCTNIGA GGAAGGGTCT

SEQ ID NO:2267: (Length of Sequence = 391 Nucleotides)

GATGGAGTCT CGCTCTGTCA CCCAGGCTGG AGTGCACTGG CAAAATCTCG GCTCCGGACC CCCCCAAGAC ACATATGACC
 CACCACCCCA TCTCTGACCA TGAGGCCACC CTGAGGTGCT GGGCCCTGGG CTTCTACCTT GCGGAGATCA CACTGACCTG
 GCAGCGGGAT GGGGAGGACC AGACCCAGGA CACGGAGCTC GTGGAGACCA GGCCTGCAGG GGATGGAACC TTCCAGAAGT
 GGGCGGCTGT GGTGGTGCTT TCTGGAGAGG AGCAGAGATA CACCTGCCAT GTGCAGCATG AGGGTCTNCC CAAGNCCCTC
 ACCCTGAGAA TGGGAGCTTG TCTTCCAGC CCACCATTC CCATCGTGG CATNATTGCT GGNCTGGTTC T

SEQ ID NO:2268: (Length of Sequence = 191 Nucleotides)

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CTTCTCTCTC CTGTTACAC AGTATTCGAT TATTTCAATG GCTACTTTCA GAGGATCAGC TAGAGGCTGA TGTGTTGTTT
CAATGGTTAT ATTATTTATG AACTGAGAGT AGAAGAAAAA TTTGAGAGCA GGTTTTGGGA AAAAATGAAT TTAGACAAAT
ATTTAGTAAC TGTATGATAT ATAAC TCCC N

SEQ ID NO:2269: (Length of Sequence = 237 Nucleotides)

TAGAAGCATT TTTTAAACAA CACTCAACTT TGTGAACCCC TGAAGATTTT TTGACCGTTC CAAGTCTTAA TGCCACACCA
CTATTCCAGC GAATTTATGC TACAACTGGT AACAAATGACC AGAAGCCTGA AGAATTAAAA TGCCAACACC AAACCTTTCC
NTACCAGCTC TGGNCTATAT TGCTCCCATG CATTTAATAT ATTATNNGT TTTATANCCA CTTCTAAATA TTCTCAG

SEQ ID NO:2270: (Length of Sequence = 223 Nucleotides)

AAAGGTTAAG GAATTTCTTT TATTTTTTAC AAATTAAGAC TATGCAGATT TCATATATTT CTGAATCAAA AACACCTTTG
TCTTCACAGT ATGAGTTAGA ATGCAGCCTG AGCTGAAAAT CAAGAACTA GAAAAGAAAG TGGTAGAGAT AACTATATTA
AAAANCIGTT AGGTATTTCC TTTAAAGTA GGTGTTTTTT TTTTTTINCC NCTTTTTTTT TTT

SEQ ID NO:2271: (Length of Sequence = 363 Nucleotides)

TTTGATGGGT GAGGCTGGTA GAGCCACTGG GAGAATGTGG GGCAGTGAGG GGAGGGACAT CTTCTAGCA TCACCAGCAT
CCTGAGCTTT GTCTTGTTT GGGAGTCCCA CAAGGGCTGG TGCAAGGNTT AGCAGCTGCT ACTTGAACCC TAATCCCTGG
GTGGATGTGG TCTCTGTGTA CTTAAGAGCA AATGTTTGTN ATGACATGCA CGGGTGGGCA GAGGTTGAAA AGAACAGGGG
TCTACGGAGG AGCCAGGCCA GCCACGTGAG ACCCTTCTTT CTAAGTTGGC TTCTTGTTCA TTCCTGGGGA TINGGGGAAA
GAACGACAGA ACTTACCTTC CATCTTCTTT CTCACAAGCA GTG

SEQ ID NO:2272: (Length of Sequence = 150 Nucleotides)

CTCCCCCTGT AATCCAGCG CTTTGGGAGG CCGAGGCGGG GGGATCACGA GGTCAAGAGA TCGAGACCAT CCTGGCCAAC
ATGGTGAAAC CCCGTCTCTA ATAAAAATAC AAAAATTAGC CGGCATGGT GACGTGCACC TGTAGTCCCT

SEQ ID NO:2273: (Length of Sequence = 330 Nucleotides)

TATATTATGT TAATAAAATC ATGTATAAGC AAAAGACCTA TGAAAGTATA AAACAGACCA ATGGATTTTA GTATAAAAGT
ACAAAACGTT CATTGAGGTG GGTTCAGTTT TCCCACAAA ACTAACCTTT AAGAACTAC CACTTATCAA GTTTTGGTAT
AAGGTATAAT ATGAAAGANG AAAATCCATA ATTATTTGAA AAACACGNTT TAAATACCTT CCTTTTTTCC TACTACATAT
CTCTATTAGG CTGGGTTTTT TTCACAACTA ATTGAATACA AAAACAAATA TGAGNATTTA GCTGTAATCT ATTAATCCCG
ACATTACAGG

SEQ ID NO:2274: (Length of Sequence = 372 Nucleotides)

AAAAAGCCAG TTGCAGTGGT ATATGCCAT TGTCCCAGCT AATCAGGAGG CTGAGATGGG AGGATAGCTT GAGCCCAAGA
GTTTGGGACT GGGCCTGGGC AACATAGCAA GACCCTATCT CTAAATCAAT CAATCAATCA AACAGTGGTA TGCCACCCAG
AATAAGTATC TTTTTTGAAG TAAAAACAA AAAGCGAAAT GGAACAACA GGTCTGGTAG TGGTGGCTGT CTGTCACTGA
CAATGAGGTC TCTGCAGAGC CGTCCCTAC CCTNCCCAAC CCCCTAGACA TCAGGTCCCT TTCCTAGGAA AATGAGAGCA
CAGACCTAGG NCCATGGNCT CCCAACTTT TTCTTCTCTT CACTACAGAT TC

SEQ ID NO:2275: (Length of Sequence = 370 Nucleotides)

CTTATCTTTT TCTGAGGAT GTTGGTTTTA TATGGATTGT CTTTAAGCAT CACTTGAAA CGCTACAAAT AATGCAGCTA
AATGTTAAG CAATTAGGAA ATAGGAATTT TTAATACAG AATTTTGCAC TGCAGAGTGT TTACAAGTAT TAAAAGATTG

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TATTACACAA CTGTTGTAA ATTCTAGTAA GATAAATTGA TACTAAAGAA AACAAACCCA GAAAGATCAA GTGACTTGGN
 TCACACAACA CAGGNATTAA GANGGAAATT AGTATTCTTT GTTGAATAT TTTCCATTG AATAGTTACA GGAAAATTTA
 TTTGCATATT TTACAAATTA AATGTGTATT GGACATCATA GTGGGGAAAT

SEQ ID NO:2276: (Length of Sequence = 349 Nucleotides)

TCTCCAGGTC CTGGAGGCAA CCGCAGAAAC AGAACANTGC AAATGCCAGC ATTCCGCAG ATAAGCGTGG CCCGCCAGCT
 GCAAACACCC CTGACATGCA GCGTCTGTT TAAAATCTGG TTGCCCGCTG CAGCCAGTGG AGCTCAGAGG GCTGCCCTGGC
 GGGTAAGGAC TCCAGGCACA CAGCAACAAG TGGCTGCCAC CTCAAATCCC ACGTGAATA TGATGGGGTC CGAGCCAGCC
 AGTAACTCCA NGAGGCTGT AGTGTGTAAG TTCGGCCAGA GTTTCAGAT ATAATANCAT TGGCCCCACG ACGTAGACCT
 GTGGCGGCTC AGGGTTAAGA GACGGGAGC

SEQ ID NO:2277: (Length of Sequence = 182 Nucleotides)

CTTTATATAG ACTCTGGTTC TAGAACTCG CCTGCAGCCG CTGGCTGGAC CAGCACACGC TGACGGGGCC GGACTATTTA
 CAGGCCCATTT GCGGGCTGTA CCTTGGCCAC CTNCCGGCAC GGTGCTCAGC TGTGACGCA AAATAAGTTA GGGCCGGCCG
 GCGGGGGCGG GCGGGGACG GG

SEQ ID NO:2278: (Length of Sequence = 276 Nucleotides)

GTATTATTTT CCCAAATGA AGCAAAGCAA GTACTGGGCG GGAGTCATCA GAAATACCTT GGGAGGTGGT GGGGAGGGGA
 GTCGGGAGCA TCAGGGAAAA CCCATCTCAA CTCACGCCTC TCAGGGGTG CAGCTGGAAA NICTTGCGTT TTCCATCACT
 GGTGCAGAAA GAACCTCCCC AGGAATGGCC AGTGGCCTTT CGCCGTAAC AAGGNCAC GCTCAGAGCA GTCCTCTCC
 TGGGCTGGGT GGACGGGAG GCGGAAGGA AAGCCT

SEQ ID NO:2279: (Length of Sequence = 193 Nucleotides)

TGCACCCATG GCCCTCCCA GAGCCCCAGG GCCCTGAGC AAGCAGGGCT CTGGCAGCAG CCAGCCCATG GAGGTGCAGG
 AAGGCTATGG CTTTGGG GGAGATGATC CCTACTCAAG TGCAGAGCCC CATGTGTCAG GTGTGAAACG GTCCCGCTCA
 GGTGAGGGCG AGGTGA CCTATGCGC AAG

SEQ ID NO:2280: (Length of Sequence = 401 Nucleotides)

GTGATTTTCC TGCTCCGTC TCTGAGTAG CTGGGATTAC AGGTGCCAAC CACCACGCC AGCTAATTTT TGTAGTTTTA
 GTGGAGACGG TTTCGCCATG TTGGCCAGGC TGGTCTCGAA CTCCTGACCT CAGGTGATCC ATTCCCTCG GTCTCCCAA
 GTGCTGGAAT TACAGGCATG ACCCATTGCG CCGGCCCCA CTGTTCTCTT TCTAATCGAG TGAGAAAATG GTCAGTATTT
 CTGTCAACAA AATTCATGAG GCTCTTTGTA CGCACAGGAC TTCAGGCCTT TCTCTCAACA ATCGCCAAAG CTGGAGGCAT
 CCACAATGGA GNAACAAC TGGGGTTTTG AAAAAACAGG GAATGTTTCC AGAATTNTTC TTCAAGAGTA TTTACATTTT
 T

SEQ ID NO:2281: (Length of Sequence = 217 Nucleotides)

AGCACGGGGA TTGTCCAAGG GTCTCCGCGC GCCCAGGCA GTGTGGTGG CAGCACGAGT GCCACTATG CAGTCAACAG
 CCAGTTCACN ATGGGCGGCC CCGCATCTC CATGGCGTCG CCCATGTCCA TCCGACCAA CACCATGCAC TACGGGAGCT
 AGGGGCCCGN CCGCGNAAC TNACAGCACC AGGAAACCAA ATENATGTCC CTGCCCCG

SEQ ID NO:2282: (Length of Sequence = 302 Nucleotides)

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CCGATGGTGA AGTGGTAAGA GGTCGATGGC CTGGGAGTTC ACTTTATTAT GAAGTAGAAA TTCTGAGNCA CGACAGCACC
TCCCAGNTTT AACTGTGAAA GTATAAAGAT GGAACAGAGC TTGANTTGAA AGAGAATGAT ATTAAGNCTT TAACTTCCTT
TAGGCAAAGG AAAGGTGGCT CAACTTCCAG TTCCCTTCC AGACGCCGAG GGAGTCGATC AAGGTCAAGC TCCCGATCCC
CCGGTCGACC ACCTAAAAGT GCCCGCGAT CTGCTTCTGC TTTCCACCA GGGCGACATT AA

SEQ ID NO:2283: (Length of Sequence = 314 Nucleotides)

GAAAAAGTGG AAGTCATCAC CGGGGAGGAG GCGGAGAGCA ATGTGTTACA GATGCAGTGC AAGCTGTTTG TTTTGGACAA
GACCTCACAG TCCTGGGTGG AGAGAGGCCG GGGGCTGCTC AGACTCAATG ACATGGCGTC CACCGATGAC GGCACACTAC
AGTCCCGACT AGTGATGCGG ACCCAGGGGA GCCTGCGACT GATCCTCAAC ACCAAGCTGT GGGCCAGAT GCAGATCGAC
AAGGCCAGCG AGAAGGAGCA TTCGCATCAC AGCCATGGAC AACGAGGACC AGGGCGTGAA GGTCTTCTG ATCT

SEQ ID NO:2284: (Length of Sequence = 262 Nucleotides)

GGCGTGACAC ACGCGCCCGG CCTGTTGGAG CATTTTAAAA TCTGATTCCT TCCCCCTGA AGTTTCCGTT CAACCTTNN
CTGTGGTCAG GTTGATTNCT TTAATTGCTA AAACAAGTCA AAATTCATA TCCATGGCAG CTGACAATTC AGACTTTGGC
ATATAAAGTA AAGGGTTTAT TTTTCCATTC CTCTGTAAAT GGTGTTGINT TCACTTATTT ATAGTGCTAT GAAGCTGGTC
ACCTGGGAGA ATGGCATAAC TG

SEQ ID NO:2285: (Length of Sequence = 193 Nucleotides)

GTGAGACACA GTCTTGCTCT GCTGCCCAGG CTGGAGGGCA GTGTCTCGAT CTGACTCAC TGCAGCTGAT GCCCCCTGGG
TTCAAGCGNT TTTCCACCT CAGCCTCAA GCAGCTGGGA TTACAAACAT GNACCACCAC GGCTGGGTAA TTTTGTGTC
TTTAGTAGAG ACGGGGNTTT GCCANGTTGG CCA

SEQ ID NO:2287: (Length of Sequence = 342 Nucleotides)

AGGCTGGAGT GCAGTGGCGC AATCTTGGCT CGCTGCAAGA TCTGCCTCCC AGGTTCACAC CATTTCTCCG CCTCAGCCTC
CCAAGTGGCT GGGACCACAG GCACCCACCA CGCCTGGCTA ATTTTTTTTG TATTTTATAGT AGAGACGGGG TTTCACCATG
TTAGCCAGGA TGGTCTCAAT CTCTGACCT TGTGATCCG CCGCCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAN
CACTTGCGCC CGGCCCTCAC CTGTTAGTTT TTCAAGAGGT GTTCGTCTATG TCCACTGTGA TAGTTATTTT GTGTGTCAA
CTGACTGGGC CACGGGGTGC CC

SEQ ID NO:2288: (Length of Sequence = 343 Nucleotides)

TTTTTATTGT AATGAAATTT TAAAAGGCAG TTACATTAGT TACACATATA CACAACCGAC TTAATAACTG TTAGTCATAG
AGAACATTCA AGAAATACAA ATGATTTATC CACAGCACAG TTCACATCCA TAAGAAGAAA GAGAAATGGT TAAGTACTTA
AACTGTCCAC TGACACCTGC TTATGAAATC TTTTCTTTT TTTCTTTTT TAAAGGAAAC TGAGATTGTT AGATGAAGCA
AGCCGTCCTG CTCCGCACA GCCTGTGAAA CTCCATTTT GCCACTTTCA AGGTCACTGC CCCACAGACC CTGGGCTGTT
GTTGACCATA AACTAGCTT TGG

SEQ ID NO:2289: (Length of Sequence = 160 Nucleotides)

CGGGCCGCAA AGCTCAGCTC CTGGCGGTCC AGGCCCTGGT GGCTCTTGAT GATCAGGTCC ACGGCGGCTG CCACAGNTC
CTCTAGGCCC TTCAGCGCA NAGCGNCTCC AGCACCTGT TGTGCTCCAT GTCCGTAAC TGCTGCACGA AGAAGCATAT

SEQ ID NO:2290: (Length of Sequence = 310 Nucleotides)

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CCGACTCTAC TGAAATACA AAATTAGCCG GCGTGGTGA CGCATGCCTG TAATCCCAGC TACTCGGGAG GCTGAGGCAG
GAGAATTGCT TGAACCCGGG AGGTGGAGGT TTGCAATGAT CACACCACTG CACTCTAGCC TGGGTGACAA GAGCAAACT
CTGTCTCAA AAAAAAAAAA AAAAGNTTAA ATGAGGTCAT GAGGGTGAGA CCTGATCCA AGCTCATAAG TGTCCCTAGA
NGTGTCTTA GAAGTGTCTT TAGGACACTT CTTTCTAAGT NTCCTAAGTT GGGGAGCTTG CTCTCCCCAA

SEQ ID NO:2291: (Length of Sequence = 270 Nucleotides)

CAAGACAGGG TCTCATTCTA TCTATTGCC AGGCTGGAGT GCAGTGGTGC AATCTTGGCT CACTGCAGAC TCAACCTCCC
AGGNTCAAGT GATGGAATTC CCNCAATTTG TCTTTGACAT TAAGANGACA CCACATATAG ACGGCTGTTT GTCAGTGATT
GCCCAGGNAT TCATGGATGC ATTINCTCTC ACAGAGCAGC AACTAGGGAA GGAAGCACCA ACTAATAAGC TTCTCTATGC
CAAGGNTATC CCAACCTACA AAGAAGAAGT

SEQ ID NO:2292: (Length of Sequence = 332 Nucleotides)

CAGTGTCTCT ATATCTCTCA CCTTCCCTTG GTTTCATTTT TCTTCGCTTC CTGAATGAGA AGTGCCCTGAG ATACCTTCAT
TTCTCTTGAA AGTATTGATC CAAGTTTAGA CAAATATCTC CCTCTTGTG GAGAGAATTC CTTATATGTG AAAATACCAA
GACATTCTTG ATATTTAGCA GGCACCTCAA TATTGTCTC CTCMTTTTGA GCATAATTAA GCCAGACTGA TGTGTGCAAT
TGAGTATCAT CAGCATGAGT AACCNMTTGA ATCTCTCTTC CCTTAACCTAC TTGTCTTACA CTAGAGTCTA GGGTCAGGGT
ACGTACAGTG AT

SEQ ID NO:2293: (Length of Sequence = 255 Nucleotides)

GCACCTGACT TATGTGAGIN TCAGGCTTCA ATGCTGTINT TAGAGCTACT CCTTCACACA AAATAGTTCA GAACATAGAG
AAGGACCAAG GTAATAAAT GATTTTINATC CCAACACTA AACATGATTG ATGGGTAGAG GCTGCCCGAA GTACTGTGTA
AAGATGGAAT CTGAGATAGA AGAATGCTGT GGTCAATTAG TAATTCTTGC CCATGGAGGG ATTAGTGACA CATGCCTTGT
ATATTGTCTA TCTGT

SEQ ID NO:2294: (Length of Sequence = 236 Nucleotides)

GGCTTCAGAA GCTATTGGAA GATTCAATC AACTTACTAA TAATCAAGCA CTTTCATATT AAGACAATGT ATGATGTTTA
GTAAAATTGA TTTTNCATA AAAGAAGTTT AAAATAAATT AGCTATTTCA AGAGNATCAT GGTGTGTCAGC AAATAGAAAT
GTGTGTCTTA ACTCAATCA CAGTAATATT CTGIGGTAGT CAATTGATTT CTTTGAGCCN TTATCTTTT ATCTGT

SEQ ID NO:2295: (Length of Sequence = 308 Nucleotides)

TTTTAATTTA ATCAGTAACT TTATTATAAC AAAACCTGTA TATTACCCAT TTAAACTCAT GTGTAACATT CAGTGATGTG
AGCTGTATTA AACCAGGTA TTAGTGAAAA TTGTCATTGT AAAACCTGGT AACAGTAGAC ATCTATGGGT GGTCAATTA
TCAAGGACAC CTTTATTTT AAACAATTTT ATATAATTCA TATCAATATG CAAAATTACC ATAAAAGATA CANGGATTAA
TACATATTTA CATTTTTAGA AATAGTACT CTGAGGTGTA CAGCTGTAC TTTTCTAAAT ATTTACAG

SEQ ID NO:2296: (Length of Sequence = 279 Nucleotides)

ACCCCTCCTG GAGGCTTTC CCCTCCCCAG GGCCTCCCTC AGGGCTACGG TGCCCCGCCA CAGTTCAGTT TTGGCTACGG
GCCTCCACCT CCACCGCCAG ATCAGTTTGC CCCTCCGGGG GTNTCTCTCT CCACCAGCCA CTCCCGGGGC AGCACCTCTG
GCCTTCCAC CGCCTCCGTC TCAGGCTGCC CCGGACATGA GCAAGCCCCC GANAGCTCAG CCAGANTTCC CCTATGGTCA
GTATGCAGGT TACGGGCAGG ACTTGAGTGG CTTCGGACA

SEQ ID NO:2297: (Length of Sequence = 306 Nucleotides)

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CTGAGAAGAA AGAGTGTGTT GTAAAGGACA ATGACTTTGA GCCCAGAGCC CTGAAAGCTA ATGGAGAAGT TATCATTGAA
ATTCCAACAA GAGCTTGTGA AGGACAAGAA AATGCTATCA AGTCCCTGGN GCATGTACAA TTINAAGCAA CAATTGAATA
TTCCCGAAGA GGAGACCTTC ATGTCACACT TACTTCTGCT GCTGGAACCTA GCACTGTGCT CTTGGCTGAA AGAGAACGGG
ATACATCTCC TAATGGCTTT AAGAATTGGG ACTTCATNGT CTGTTACAC ATTGGGGAGA GAACCC

SEQ ID NO:2298: (Length of Sequence = 307 Nucleotides)

AGTACACCTA GTATCTTTAC AGTGACTATT AAGTATTTTT GAACTCAAAG TATATATTCA TCTTAAACTC CTGGAACCTAT
GAACCCCTCCC ATGTAATTTN CTGATGAATG AAAAGGAAAA CTTCCTTTCA AATAAGTGTG ATCTGTGTGA AAAGTATGTG
ATTTAAAAAC ACATGTAAAT ATAATCTTAG CTCTAATGTT TTCTTTGGG AGTTTGGGAA AAAGCAGTTA CATTTCTCTG
TTGTCTGGTT TTTATCATTT GAAAATTGGA AGGATTCATT CTGGATTGCT GAGCTGCATC AGTAGGG

SEQ ID NO:2299: (Length of Sequence = 289)

GTTTTTAATG CATTTTTTTT AAAGATTAAA GTAAAATGTC TCAATGTAA AAAATACACA CCGGGCAAAT CCTTACCTGG
NTAATAAATA TCTACATCAC AGTACAATAA AATTNCTNCT CTATAAAATT TAAATATGGA TTATAGTCTA TCACTATCAA
AAGAAACACT ATGCTAATAT TTCCATATTA TTAAAATAAC AGGAAAAATT ACGNGCTTAT TTTAGAACCT GATGCCATAG
CCGTTGGAAA GGGCAAAGAG ATTCAAATGT CGATCATCAC TCTCCATTT

SEQ ID NO:2300: (Length of Sequence = 371 Nucleotides)

CACCCATTGA AAAAGCAGCC GCCCTCCTTC CCAGGAGCTG CTGAAGAGAG AGCCTGCCAG AGCCTTGCCA GCAGGGACAG
CCTCTTAGAT ACCAGCAGCG TCTCAGAACC CAACGTGTCC TTTGTCTCNC ACTGTGCGGA CAGCAACAGT GGTGACATAG
CTGTINATCGN GGAGGTCCGG ATGGAAAACC CAAAGGAGAG TAGCAGTTCC CTGAAGACTG GGAGGCACAG CTNAGGCCAA
GACAAACCAC ACGNAACTTA CCGACTGCTG AAACGCAGGA NTCTGATCAT AGAAGCTGTC ACCAATCTTC GCTTAATCGA
GAGTTTATTC ACGGTTTCTG AGATGATCAT GGATCAGGAG AAGCAGGAAG G

SEQ ID NO:2301: (Length of Sequence = 287 Nucleotides)

ACTTGGTGTG GGGATTTGTT GTGAGGTTTG CTGACACCTT GACCATTTTT CACTGGCTGG AAATGAAAGG AACTTCCCAC
TTGCTCTTTG AAGGCAATTC CATTCTCTCC AGGGTCTTCA TTTCCTTCCC ATATTCTCTC AACTTCCCAA ACTTCTGAAG
AAGGGAGCAA ACTTTGGCCA CGAGGAAGGA GTNGAGCTGC CTCGTACTTT GTCACCTGCAC CTGCACTGGT TGAATCCACC
TTTCCTGGGT CACGCGCTG TGCTGGGTGG TCACAGCCTA GGACCCC

SEQ ID NO:2302: (Length of Sequence = 358 Nucleotides)

GGAACACAGG ATCCAAACTT GTCGGGGAAC TCGGAGAGAA GATCATOGTT GGCGCGGTCC TTGGTGGGCC CAAGGATGAT
GATGGGGCGA GCATAGTGCA CTTCATCTG CGTCACTGTC TCGTAGCTCA GAACCGAGTC TTCTCGACCC TGGATCCAG
AGCTGGAGCC CAGTCTCTG GCCTTTAACC TTGACCACTC TCGTGGCTCA ACCCGCCGTT TGCTGGGGAT GAACCCAATG
TCGTGGGTCT CACTGTCAGA GTGGACCGC CGTGNTGCC ACCACTCCTC ATCACTAGCA TCGATGACAT GCAGCACATN
CCCAAAGCGG AAGTTCAAGG GCCTGGCTCA GGAAGCCG

SEQ ID NO:2303: (Length of Sequence = 403 Nucleotides)

GTCAGGGGCT CCAGATCATC CTCCTCCAAG GGCCCCGAG GCGCCTCCTT GGCTCTGGC TCCTGCTTGC CGCTGGCCTC
CAAGATGGTC ATGATGGAGT TAGGGATGTN AGCTTGCTGG TGGGGGGTGA AGGAGCGGAC ATGGGOCAGC AGGGGCTCCC
GGAGCTCTGG GCACTTNTCA AAGACGGCTC CCAGCTGCTG GGGGGGCANT GCAGGATGAC CTGGAAGCTC TGGGGCTTTG
TGCGCTGGCA GCACTTGATG AAGCCCTCCC ACACCTTGGG GTACTTCCAC AACTGCTTCA TGATGAGGCG GGACAGGATG

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TTCATGACGG AAGCCCCCA GCGGGGGTA CATGGTCANG GACCTGGATG ACGGTCTCA TGAGCAACAT GGGCAAGGGG
GCT

SEQ ID NO:2304: (Length of Sequence = 376 Nucleotides)

ATCTTGCTAT GTTGCCAGG CTGGTCTGA ACTCCTATTC TCAAGAGAGC CTCCTGCCTC AGCCTTGTA AGCACTGGGA
TTATAGGCAT GAACCACCGC ACCCAGCCAA GATTGCCATT TTGTATGATG AGACTGGAAG GACCCCATG TTTCAGGATT
TTGCTACAAT ATACAAAAA CAATCTGTGA GACAGTGGCT GGGCTTTTTT CCTGCCTGAT TAGITCAGTG CACATACAA
TTGGACCAGA GGATCTGGGT TTGAATCCCA TCTCTGATAC TTCCCAAAC GAGCTGTTTT CCTTATTTGT AAAGACTAAG
ATCGCGTATG TCAAAGAGCT CTGTAACTC TCAACACATA CAAAGTACTA CTGCTG

SEQ ID NO:2305: (Length of Sequence = 354 Nucleotides)

CTGCCCAGCC TGCTCCTGGC CCCCTGGAAG CCTCCCCACA GCTGGTAATC TGGACITAAG GATTGCTGGG CCACCGCCTC
TCTGCCTACC ACCATTCCAT ATTAAAGTGG AGCCCTACG TAGAAAGGCC CCGGGGCTTT ATTTTAGTCT CCTTTTCAGG
GATGTCGTGG GCGGGGAGG GGGTCTTGG TGCTACAGCC CTCTCCCAC CCTTAAAGGG ACGCCGACGC TGTTTGCTGC
CTTCACCACA TATTAGTGT TGACCCTGGC AGGGGACCCC ATGGAAAAGA TGGGAAGAG CAAATACAT GGAGACGACC
CACCCINAG GGATGCTGC TTGGGATTCC CAGC

SEQ ID NO:2306: (Length of Sequence = 345 Nucleotides)

CCAAGATCCT AAGTAATTCC AAATGCCTTA GATATCAATG AAAGCTACAC ACCATTGAGA TGGGCAAAAT TCTTTCTCTA
CAAAGGGAGT AATCAAGTAA ATACCTGTCC TCTTCAATG GACTGTGACC TATTGAGCAT TGTTGATGAT GTGTTTTAG
ATTTCCAGGT GAAGTCTGA CCTACCTGT TTGGCCAAAG ACGTAAATTG AGAGGAAAGG CCTTGGTCTT CCTGATCAAC
CAGCAATTAA CGAACAGTGG CTTAATGCAG ATCACTCAAG AGGNAGCATA GCAATGTAA AGGAATATA GTAGGTGTG
GATGCCTTTT TCCTAGACCA GGAAT

SEQ ID NO:2307: (Length of Sequence = 337 Nucleotides)

AACAGAATGT AAAAATACGC AAGTCAAAC CTGGTAGAAC TGCAATGAGA AACAAATGGA TTCAATATTA TNAGTCGGGA
AATTCAAGC CCTCCTATCG AAAATGGACA GATCCAGCAG GCAGAAATT AGTAAGGACA TTGTTGAGCT CTGCAATACC
ATCAATCAAC TGGATATAAT GGACATCTAT AGACTACTTC AACACAGCA GAAGATACAT TCTTCTCAG CTCACATGGA
ACATTCAAA AGATAGACCA CACGAGGCC CATAAGCAC ACCTTAACAA ATTTAAAATA ATATAATCA TACAGTGTG
TCTCAAACCC NCAGTGG

SEQ ID NO:2308: (Length of Sequence = 216 Nucleotides)

GAGGAGTAAA CINTTTCTG AGAAGCATGC TTAGGTGTG GGACAGGAAG TGGTAAAGGC AATGCATCGT CCACAGAGGT
GGATGAAGCA GTNACAAAG AATGATAATT TNANCTGCTG GTGGCATCTN CACTGCTGGA GTGTATGGCA GCAATCATCT
TACTCTCCAT CATCCTGGTG GGGGGCAGTN GTGCAGGAAA GCCACAGGGA TCGCA

SEQ ID NO:2309: (Length of Sequence = 289 Nucleotides)

GGGGCTATGA AAATACAAA AACATTAGCA CATTCAATG ATGTATGTGT CTACAGGCAT TTNCCCAGCC CTATGAGAGT
NCTGCAATTT GAGAAGTACT AAAATGTATT GTTTGGTGAC AAGAACTGCA ATAAAAAGAT AAATGATTIN CTGAATGTG
TGGCAAAGCA GTCTATTTCC ACTGCAATTT CTGCTACTAT TAGCTTAAAA ATTGCTGAGA CAAAGGACAA CCTTCTGATT
ATNCTGCTGA GATCTAATGC AAAGTCCTCT CAGANGCTTC ACTACACAT

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SEQ ID NO:2310: (Length of Sequence = 359 Nucleotides)

CTGNGGGCTG CCTCTCGTIG GTCAAATCCA ACCAAAAGCT AAGAGCTGGA GAGCTTGGGT GGTGCATCCA AGGAGGCTTG
 CTTCTGGGG CACAGAAGGG AGAGTGGAGA AGGATGGAAA GTGGCTCTAG GGGAGGAAAT GGAGAACATC CAGAACTTTA
 TGTACCTCT GGTGCTTGAA GGCCTTTCTC CAGGGAGACA AAAAGTTTGT NTTGGCTAAA GCTCCCTGGT TGCTCAGGAG
 CCAAGGGTCA CATAATGTGC CAATGGGGGT TTTGCTCT GAAAGCCTCT GAGGTATAAT TACTTGCAAT GNNAACATCC
 CTTTCTCTC TCTTCTCTG CCCACCTCC ATGCCAAGG

SEQ ID NO:2311: (Length of Sequence = 324 Nucleotides)

GTTNGGGGCC GGCCTGGGCA ACATAGACAC CATCTCTTA AACAAACAA CATCATTAGT TTCTACATTC TACAAGGTGA
 AAGACTAATT AGAAGTGAAA AATACCACTG AATGTTGGT GTACAAATGG CAGCATAATT TGATTTACAC TAGATTTTAC
 ACATTTGTTG CTATTTCAA TAGGTACTTT TACATTTTC TTAAGTGCAT CTGACACAGA GTGAATCACA GATATATGTT
 GGTGTCGAAA GCAGAGGTTA CTATTATTAA NCGAAAATTT TTGTGGTTTT GCAGTCATCA TATCTAATGT GGTACAGAT
 TGIG

SEQ ID NO:2312: (Length of Sequence = 362 Nucleotides)

GNAGTTTATA AAGCTTTTATT AAACATTCA AACAGCTGTG CAACGAACAC ACCAAATAAA AGCTCTAGAA TAGCAGTCCA
 GACGTTTCAC AAGTATGGCC TCACAGTCCC ATTCCCTAGA TGGACTGCCT CCAGTNCIGT NCTCTGCTG GCCCATCTCT
 CTTTCCCTC AGGCAAGAGA GAGATGGATG GNTCAGACTG AAAGGACAGG CATGCTGATC TCCAGCAGGC AGGGGCCAGG
 AGAAAGTCTC GTTTGCCAAC ACTTGTTACT GAAGCGCAGA AAAAGCAGCA AGTGACAGTC ACAAAGTCTT CTTGGGGTAT
 TCTTCATAAC GTACAGTCTA TATGCGCAGG AACGAGGAAG CT

SEQ ID NO:2313: (Length of Sequence = 449 Nucleotides)

TGTAATTTTT AAATTAAGAC TGCCTTAGTG AGAAAATTC AGCAGGTGAG TTAAGGGCAC GAGGAAAGGG CCTTTGTGCA
 GAAGTAATGA CATAGGCAA TTGTCAAAGG AGAGGTTCCT TGGTGTATTT NTAGAAGAAA GTAGACCCAT GTNTCTGAAC
 CCAGCACACA GTTCACTTAT GGTGGTTTTG AAATCTGCCC TGGAAATTNC ATGCATCTTT TAAATTTTTG GTTTATTTT
 NCAAGAAATA AATGAAGTCT TTATTTTNC AATGAGGCA ATGTTTATTA AGAACAGCAC ATAAGGTAGA AAAGAAGGTT
 GGTTCCTAAT CTGGTTTCAT CTCCCCACT GATCTTGAGT TTTAAAGCA TAGAGAGCAC GATCCTTCTG TGGGGTCTCC
 ACTGTCAGAG AGCCTGNC A GATGAGCAGT CACACTGTTA CTCCACAG

SEQ ID NO:2314: (Length of Sequence = 316 Nucleotides)

CGAGGCAAAC ACAAAGGGCT CTTCTGCTT CTCTGACCCC ACCTGCAGCA GGTAGTGGAT AACAGCCCCT ATGGCCTCCT
 TCATGACGCT CACGAGCTGC ACCTTCTGTG GCTCCTTAAG CAGTGACTGC TCACAGOGAG TGCATTCTG GNTCCCAAC
 TCCATGAGGG CATAGCAGGC GTCCACCACA TCTCTTTCA CCTCGTGCC CGTNTCTCC AGTGCCAGCC GCACTTCCAC
 GNACGNCAGA TTCACCAGCA GGGCCAGGAA CTGCTCCCG GAGCTGCCCG CCGGGATCCA GTCGGAGCCG CAGGTG

SEQ ID NO:2315: (Length of Sequence = 286 Nucleotides)

ATTTTTATGT GTAGACAGGC TGTTGGTTC CTTCACTTAA ATTGAAGCTC TGTGAACTT GAGACACTTA AGANTCTTGC
 AAGTNTGAAA AGTGGAGTGA AACAAAACCA TTTCTAAAAC GAAAATGTGT AACTNCNTTC AGTTTACAC AGTGNAGAAA
 TAAGTATTAA ACAAGTTAGT CTCAAACGGT TATATCTTAA GGTCAATTTA TTCTGTAT CATTAAGTAG ACATATCTTG
 GTTTAGAGAG CAGCACACAA GACATTGTGT ACTNITTAAT AGCTAA

SEQ ID NO:2316: (Length of Sequence = 414 Nucleotides)

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AATCATAGCT TACTGTGGCC TCGATGTCCT GAGCTCAGGC GATCCTCTCC TTATAGCCTC CAGAGTAGCT GGGACTATAG
 GTGCGTGCCA CCACACCCTG CTAATTINAT GTTTTGAAGA GACCGGGTCT CACTTTGTG CCCAGGCTGG TGTGAGACTC
 CTGGGCTCAA GCTAAATCAC CCACCTTGGC TTCCCAAAGT GTCGGGATT A CAGGTGTGAG CCACTGCGCC CAGCTCTGAT
 TTTTGTATTT CTACATAAG GCGACATACT TAGTAGCTGT GCGTCTTGGG GCAGATACCT CCCAAAGCCC CAGTTCTGTC
 ATCTATAAAT AATGTAACAA CAGGGCCCCG CTCGCAGGT TGCTGTGTGC ACATATGTGT GTGTACGTAC CCATGTGCCT
 NTACGAGAAG GGCT

SEQ ID NO:2317: (Length of Sequence = 166 Nucleotides)

GCAGTACTA TTATTAACAT TACAGTACCA AGCATCCGCA AGAGACAGTC ATTGTINATT TTINATCAAG AAATAGGGCT
 GTTTTATACT GTTATTGACA TCAACTTTTT CCCAGTGCAT TTTTCAAAA TATTAATAAG TTCATTCTTT TGTGCTTTTA
 ACTTCC

SEQ ID NO:2318: (Length of Sequence = 374 Nucleotides)

TTTATTTTAC ACTTACAAAA GAAATGCCCC ACCCCTTTGC CCCATTCCCC CAAAACAGTC TCTTTTTTACA AACATTTAAA
 AATTAAAACC AAATGAAGAT AGACAAGTTA ATTTCACTAC AATTATTTIN CAGTGTAGCT GTCATAATTA GAGTTTAAAT
 TTCCTACAAG TGACCAATGT CCAAGTGAAT TATAGGGAAA TCCTGATTAT CGGCCAAAGG AAATTCAATA TTACAAGTTA
 GCAAATTCTT AGTACAAAAA TAGTCCGTGT GTTGGAACTA CTTTTCCTTG TTACATAGGT CTTAGGTCAG TCTGCTGTNA
 ATACCTTAAC GNTTCCGGAT TCTNNTCTCA CAAATG AATGTCACCT GCTG

SEQ ID NO:2319: (Length of Sequence = 380 Nucleotides)

CATCTTAGTT CATGGTAATC TCCTTGGCAG CACTTATGT CTTTGTGTGA GAGCAAATGA TAGAGTCATC CATTCAAGTT
 AATTAAGAGC ATCTGCATTG CAAACTGGT CACTAAATG CTCGCCAAT TTGAGGCTTT TTTCCTGCCA ACACAAATTA
 ATTTTAAAG TAGCAGCATT TTCAGGAGAG ACCAAATAAA GAAAGCAACA ATAAAGTTGC CTGTCTAGTG AGATGTCCCC
 AACTATCAA CTTTAAACAT ACCTTTGCCT TTINATAGTAG TTCTTCACAC AACTGCCTT AATCAAAATG CGTGTCTCTT
 GCTCTGTCAT TTTATGTTTT GGCTCTTTAG CAACCTAATT GTATGGTTAG ACAGATTCCT

SEQ ID NO:2320: (Length of Sequence = 348 Nucleotides)

GGAGTCTCT TGTCCACGGA GAGCAGTGT GAGTGTATG GAATGCTAAA TCTTACCCCA AAGGGCAAGC AGGCTCCAGG
 TGGCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATTGGG TTGGCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG
 AGTCTGACGT TGATGTCCAG CTCAACAACA GACACATGAT GATCCNAGGA GAAAACATGT CCAAATCCT AAAAGCACGA
 TCCATGGTCA CCAGGTGCTT TAGAGATCAC TTCTTTNATA GGGGGTACT ATGAAGTTAC TTCCTCCAAC ATTAGTGCAA
 ACACAAAGTA NGAAGGTGGT GCCACACT

SEQ ID NO:2321: (Length of Sequence = 330 Nucleotides)

ATCTAGACTT TNAGTTCCT GCATCTGCCA CCGTAGTTTC TAGCAGGAGT AGTGGGGGGA GTAATACAGA TTCTNCCCTA
 GAAGGGGACA CTGGTAACAT GTCCACTCT TGGATTAGCA GGGGTGGGTC CAGGAAGATG ATATTINNT CTTTGTGCCA
 CCCCCCTGGC ATTCAGCTGG ACCCAACTAG GCCATCATGA GTGGCTTCTC CCTGTCTATC CCAGGGGTCA TAGGATATCT
 ACACCGCCTT TNAGACCCCA CCTGCACTC CCATCCCTTC CTCTCTCCCC GTTTCATGCC CTGCACTACA TAGCACAGCC
 GGGATGCTTN

SEQ ID NO:2322: (Length of Sequence = 352 Nucleotides)

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TTGACAAGTA AGTGTATATA TTTAAGGTGT ACAATGTGAT GCTTTGATAC ATACAGTGTG AAATGATTAC CACAGTTAGG
 TTTAATAATT AACATATCCA TCATCTCACA TAGGTATGAT TTCTTATGTG TGTGGCGAGA ATCCTGAAAA TCAACTCTGA
 GCACATTTCA AGTGTACAAT ACAGTATTTA TGATAGTCAC CATGCTGTTA ATCAGATTGC CTACCTTGGT TAAAGTGCAG
 ACTCAGGTGA AGGTCTGGAT GGAGGATCAT ACTTTAATTG ATTTAGACTC TAAAATAAAT GTATATAGTT ATTTTGTCTA
 ACCTAANGAA CCTACTCATA AATGGGCTAG TG

SEQ ID NO:2323: (Length of Sequence = 316 Nucleotides)

GAGACAGAGT CTCTCTCTGT CGCCCGGGCT GGAGTGCAGT GGCACAACCTC AGCTCACTGC AACCTCCGCC TOCCAGATGT
 CCAAGTGATC AAGGGGTTTC ATTTGCTCTT GGGGGATTAG GTATCATTTG GGGAGGAAGC ATGTGTTCTG TGAGGTTGTT
 CGGCTATGTC CAAGTGTCTT TTAATAATAG TGGAGACGGG GTTTCACCAT GTTGCCAGG CAGGACCTCA GGTGATCTGC
 CCACCTCAGC CTCCCGAAGT GCTGGGATTA CAGGCATGAG TCACCACACC CGGCTTCATT TATTTTCTTA TCCATG

SEQ ID NO:2324: (Length of Sequence = 300 Nucleotides)

GGGACAGGA GGAGACCTCG CGAGCAGACG CGGCNCCAN ACAAGCAAGC CCGCCCCGGC CTCTCGGGAG CGTGGGGCA
 GAGGCTCGG ANCCAGGAG GGCGGAGCC CTCATGANTT CANTNACCTG CTTCTCCCCC TTAGGTCTA TCAGCCACAG
 TTTCTGCAAG TTTCCAAGAG CAGCAGAAAA TGAACACATT NCAGGGGCCA GTTTCATTCA AAGATGTGGC TGTGGATTTC
 ACCCAGGNGG AGTGGCAGCA ACTGGACCCT GATGAGAAGA TAGCATACGG GGATGTGATG

SEQ ID NO:2325: (Length of Sequence = 303 Nucleotides)

CTGTCTCAAA TAATAATGAT AATATTINCT TATGCTTACT TTAGTGAAG ATTACAGTAT ACATTACAAC ATATGCGTTT
 ATTGACTGTT TATGTTATTG ATAAGGCTTC TAGTCAACAG TAGGTTACTA GTAATTAAAT TTTTGAGGAG TCAAAAGTTA
 TGTGTGGATT TTCAACTGTG GACTTTGGTG CCTCTAACCC TGTGTTGTTT AGGGGTCAAC TGTGTATTCT TCTGTGGNA
 ACATTTTTAG ATGTTATAGC CTTTAGACAT TAGAAATGGA AATTTAGTTG AACTCGNGTG TTC

SEQ ID NO:2326: (Length of Sequence = 348 Nucleotides)

GTTGGTCTCG TGTGGCAGAT GACACAATCT CTCCCGTCCC TGGAGGCCAG CTCCCCCGTG GCCAACCTCA GGCTCCCAT
 GGCATCTCAG GGCTCCTCCA GCCAGACTGG CGCCATCCAA TTAACCTGAT GGTGGCTGAG CAGCTCAGCT CTGTGCCAGC
 CCCTGCAGGA GGCAGATCAT GTTGTCCAGG CCCAGAGGT AGCGTCTCTC ACGGTTGCCN TCAGCCCAGG GCAGCCTGTG
 GCTGAGCGTC TGGTGGTCCG GCAAGGCCAC CGTCTTGCCG AAGTCTATCA TCCAGACCTT GGCCAGGCCG GTGTGGTCTG
 GCACGAAGAG GAGGGAGCTT CCTACCAC

SEQ ID NO:2327: (Length of Sequence = 392 Nucleotides)

AGCTGTTTTT TCCTAGCTGC CAAGACTGTT GAGGAAGATG AGAGAATTCC AGTACTAAAG GTATTGGCAA GAGACAGTTT
 CTGTGGATGT TCCTCATCTG AAATTTTGAG AATGGAGAGA ATTATCTGG ATAAGTTGAA TTGGGATCTT CACACAGCCA
 CACCATTTGA TTTTCTTCAT ATTTTCCATG CCAITGCACT GTCAACTAGG CCTCAGTTAC TTTTCAGTTT GCCAAATTG
 AGCCCATCTC AACATTTGGC AGTCCTTACC ANGCACTAC TTAAGTGTAT GGCTGCAAC CAACTTCTGC AATTCAGAGG
 ATCCATGCTT GCTCTGGCCA TGGTTAGTCT GGAAATGGAG GAACTCATT CCGATTGGC TTCTCTTAC AA

SEQ ID NO:2328: (Length of Sequence = 256 Nucleotides)

ACGAGCACAC TCTTCACAGT GGGGCGGAAC ATCAGAAAAT GGGAGCCTTC TTCTAATGGC TGTCCTTTTC TGTGGGAAA
 AAAAAAAG AAATCCTCCA AACCACACCG GATGGTTGTA AAAAGCTGCA ACGGAACCTT TGGCACCNGA TGAGAAGAGA

GGCCTTTTAA TGCCATAGCT AGTGATGATT CANTCAAAGC ATCAGTCTAA GGAAGGATGA TGGGGGAAGG GACCNNAGAT
CACAGNCCTT CTCCTT

SEQ ID NO:2329: (Length of Sequence = 383 Nucleotides)

AGTAGAGACA GCATTTCAIT ATGTTGGCCA GGCTGGTCTC GAATCCTCA CCTCAAGTGA TCTGCCTGCC TCGGCCTCCC
AAAGTGGGG GATTACAGGC GTGAGCACNC ATGCCTGGCC TTTTTTTTTT TTTTTTTTAA CGAAGTTATT TTCTAGAGC
ATTATAGTT TGTTTTTATA CAGTTAAGGT TCTCATCCAT CTGGATTTTT TGGTAAGTGT GGGGAGAATA AAATGAGGAG
CCNCIGTTTT TTCTCCAAA TGGCAATGAT TGTCCCAACA CAATTTATTG AATCAATAAT TCATCTCTCC CATACGAATT
TAACTATTG AACTTTCACA TCAAAATTTT GGAACACAA AGTAGGTTTA ACAAGGTGAG AAC

SEQ ID NO:2330: (Length of Sequence = 392 Nucleotides)

CGAAACGNIC TCAACCTATT CTCAAATTT AAATGGGTAA GAAGCCCACT GGTACGATG GCAAAGCCCC AGCTCTAATA
AAAAATGCAA AAAATTGGCT GGGAGTGGAG GCGGGCGCCT GTAATCCAG CTACTTGGAA GGTGAGCTG GGAGAGTTGC
TTGAGTCTGG GAGGCAGAGG TTGCAGTGAG CCGAGATCAC ACCACTGCAC TCCACCTTGA GCAACAGACT GAGACTCTGT
CTCAAAAAA AAAAAAANT TATGCAAAGT GTCTTTTCCA ACAAAGTGT AATGAAGCTA GAAGTCAATA ACAGGAAAC
CTGGGNGAAT TTGCAAGTAA GTGAAAGTTA AACAACATTC TTAACCAGTG GCTCAAAGGA GGAAATGACT GG

SEQ ID NO:2331: (Length of Sequence = 284 Nucleotides)

AAGAAAAGTA AATTCATCTT GCTCACAGTC CTCTCTGGAA GAGTTTAGAA AGCAAAGAAT TCACCGACTC AGCAGGAAGC
AGAACGAGCT GTTCTCTCTT TTGACACGCA CAAGCTAATC CCTAGAGAG TGGGGATGTG GGAAACGGAG GGTAAATTAAT
TCTTTGGTCA CTGGTCACT GCTGAATAGC CTGGTCACT TTTGGCTCTC TCCTATTTTA GGGGGAAAAA TATTTTNGTT
TCTTTTTTTT AAAAAATAAA ATGTTGCGAC AATGGGAGAA AATT

SEQ ID NO:2332: (Length of Sequence = 349 Nucleotides)

ATCTTAAAAA GATTTTGTG ATTTNCTTTT GAGACTGGGT CTCAGTCTGT TGCCAGGCT GGAGTGTAGC AGCCTGATCA
TGGCTCAGTG CAGCTCTAC CTCCCGGGC TCAGGTGATC CTCCCTCTC AGCTCTCTGA GTAGCTGGGA CTACAGAGGT
GTGGCACCAT GCCCGCTAA TTTTGTATT TTTTGTGGAG ATGGGGTTTT GCCATGTTGC CCAGGCTAGT CTGAACTCC
TGGATGTGAG CCAGTGGCTC TGGCTATTA TTTTAAATAT AGTTCTCTTT ACTGCCAGTA GCTTTCATAT AACCTAGCG
ACTAGATTTA GTCACCACTG CTFAATTCC

SEQ ID NO:2333: (Length of Sequence = 353 Nucleotides)

CCACCTCTCC GTTCTCTGCT TCINAACCAC AGCGCATCC TATTTCAGC CCTCAAGATT AAGGATGAAA ATTTGACTTT
TTAATTTTAT TATCTTGTG CTCTCTCTT ACTTCATTAG AATCATGTTA TTGGCCTAAA ATACTGTATG TAAAGGATGC
TCTGGGGCCC ATCTGGAAGC CTGCATTCTC TGGGGATATA ATTACGCTAA GCAATTTTTT ACCAGGGACA GCATGACTTA
GCTTCTACCT GGGCATCCTC TGGCAACACA GCCCTCAGTT CTCCAAAGG GATTGGCTGC TGTCCCTTCA GGCCTCTCTC
TTGNGTGTG GTGTGTGTG GTGTGTGTG TTC

SEQ ID NO:2334: (Length of Sequence = 279 Nucleotides)

GCGCCTCTA CNACTGCTG CTGCCGNCCT CATNCTGGTG GCGATGCTG AGCTGCTCTA CCTGTGCTG CTGTCCGGAC
TGCACGGGCA GGAGGAGCAA GACCAATATT TTAAGTTCTT TCCCCGTCC CCACGGTCCG TGGACCAGGT CAAGGCGCAG
TCCGNACCGC GCTGGCCTCT GGAGGCGTCC TNGACGCTAG CGGCGATTAC CGCNTCTACA GGGGCCTGCT GAAGACCACC
ATNGACCCCA ACNATGTGAT CCTGGCCACG NACGCCACG

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SEQ ID NO:2335: (Length of Sequence = 386 Nucleotides)

GCCTTTTGT CATGGTAGCA AAGTGGCTGC TGTGGCTCCA GGCATCACAC CCTCAATCAA GGTAGGAAGA AGAGGCCAG
GGAGGTGTTA GCCATGCCTG TTTCTTTTAT TGGAAAAGCT TTCCAGAAG CCCAGGTAGA CTTCCTCTC AATTTCATTG
GCCACACCTG ATCACAATAGC CATCCTAAGC TGCAAAGGAG ACTGGAACAG TGAAAATCTG GATTACAGC CTCCACAGT
GGAGTGGCTG GAGATACAGA GTTGGGACGA CCCCTGAAAA GTGAACCAAG GTCGTCGCA CGGCTGCCCT GGAGGGCGTG
GTGCTTGAGG TCCCTTCTAC CTCTGGGGCT TCATGGAATG ACTTGTTGCC TCCATGGAGC ACCTCT

SEQ ID NO:2336: (Length of Sequence = 258 Nucleotides)

CCCTAGCAAA CCACTGATGA CCGCTGGA GGGGCCAGCC TGTCGGTGCT CTGGGCCTTG CAGCTNTTTC TNTAGGGTTA
GCGGTGGTGC CGGGTCACT TTCGAACTT TTTTTTTTT TTTTCAAAA GGAAAGTTT TAATGGAAAG TTGAGCCAGA
ACTAAACCAG GGAGCTGTCT GAAATCATAG CACCCCATCC GGGTGGCGG GAGATCACT CCGAGCTGTT TTTCCGAGGC
AGTGAGGAAC GGTGCCGG

SEQ ID NO:2337: (Length of Sequence = 338 Nucleotides)

ATCTCTTTTC CCACTTCATA AAAGCAAAT ATGTAAGACT AGCATCTGGT TTTTGTCCCA ATAAAAAAT CCCACAATT
TCAAGATATC ACTCTAGCTT TCTAAAGTAG AAAGGCAATT CAGGCAACAA AAAATATTTT TTAATAATCT ATAGCCCAA
TCACAAAAG GTAAGGAAAG AACTTTCCTA GCAAGCTCTG GAGAAGACCT AATTTGNC ACAAATGGA GCTTTCAGAC
ACTAATCAAG GCCATTAATT AAAAAATTT TTTTCAGAAA ATAAGGCAGG TTGGATCTCT TTTCCACTT CATAAAGCA
AAATATGTGG CAGACTCT

SEQ ID NO:2338: (Length of Sequence = 410 Nucleotides)

GGGTCTTGCT ATGCTGCCTA GGCTGGTCTT GAACTCTCA ACTGCAGTCT TGACCTCCCA GGCTCAAGTG ATCTTCTTAC
ATAGGCCTCC CAATGTGCCA GGATTATAGG CATGACCACC ATGCCAAGCT CCAGATGGTA TTCTTAATTC AGCTCACAAT
GTGCCCTCAT CAGATTGCTA GTGGCCAGGA GTGAACAACT GAGTGACTTT AAGAATCAGG ACACCAGGAA TATGTTCTA
GAAAGTGAAG GTATGAGTGG AAAACCTGGG TTGGATTATG AACAAGGCC ACATGTGTGC CAGAGTGGCC AGGGCAGGGA
GCAGCAGCAG GTGCTGGTGA AAGGAAGGTG GATTACTGGG GGCAATGCCT GTCTTGTGT TATGGGTTTC TTTTGAGGGA
AGTAGATAAG

SEQ ID NO:2339: (Length of Sequence = 336 Nucleotides)

AGGGGAGGAG GGGGCTAAG GCGGCTGGAG GAAGAGCGAA ANAGATGGAA GCCTTCCGGC AGAAGGCAGA GCTGGGGCGT
TTNTTGAGAC ATCAGTATAA CGCTCAACTC AGCAGACGCA CACAGCAGAT CCAAGAGGAG CTGGAGGCAG ACAGGGGNT
CCTGCAGGCC CTCTCGAGA AGGAGGACGA GAGCCAGCGC CTCCACCTGG CCAGGCGGGA GCAGGTCATG GCGATNTGG
CCTGNTGAA GCAGGCCATT NAGGNGCAGC TTCAGCTGGA GCGGCGCGG GAGGCAGAGC TGCAGATGCT TCTTGAGGGA
GGAGGGCCAA GGAGAT

SEQ ID NO:2340: (Length of Sequence = 290 Nucleotides)

TTTTAGTAGA GATGGGGTT TCTCTTGT GGTGAGCTG GTCTGAACT CCGACCTCA GGTGATCCAC CTGCCTGGC
CTCCCAAAGT GTTGGGATTA CAGGCGTGAG CACGCGGNC CGGCTTCAG TTTCTTCTA GGCGTTCTG TCACCAAAT
AGCTGCTACC CAGAGNGGOG GGGTTGACCT AGGCTGAATA TCCACTTGT TTTTATGGAT GGCTNCCTTC CCCCATTG
CTTNCAGAA ATATCTTTC AAGTINCANT TTCCAGGGG AGCTCTTGGG

SEQ ID NO:2341: (Length of Sequence = 298 Nucleotides)

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TTTTGCTTAT TACCOGATTT ATTAGAGAGA TCTCTAAAAA GACGGGGTGT GGCGGGGGTA GGTGGGCGAG GAACCTGGGA
 TGCAACCAG TGTITGGGGC CAGGAGTGGC TGTATGTTT CANAGGCGCC CACCACTCTG GGTITGAGGG ACACAGCACC
 CTCGTCTCGG CGCTTTGGAT TINTACGCAC CAGACCACGG GGCGGAGGAA TGGAGTGGCA TCCCTGGGGG GAGTTAAGAC
 ACAOGAGGTT TGCAGTTTCA TTTTGTTC GAATCAGTTT GGCCATAAAA ATGGGACT

SEQ ID NO:2342: (Length of Sequence = 316 Nucleotides)

CCTGAACAAG GTCGTGGTGG TGTGGAATTC TCCCAAGCTG CCATCAGAGG ACCTTCTGTG GCCTGACATT GGCGTCCCCA
 TCATGGTGGT CCGTACTGAG AAGAACAGTT TNAACAACCG ATTCTTACCC TGGAAATGAAA TTGAGACAGA GGCCATCCTG
 TCCATGTGATG ACGATGCTCA CTTCCGCCAT GACGAAATCA TGTITGGGTT CCGGGTGTGG AGAGAAGCTC GGGACCNAT
 CGTGGGCCTC CTTGNCGTT ACCACGCATG GGACATCCCC CATCAGTCTT GGTCTACAA CTCCAACCTAC TCCTGT

SEQ ID NO:2343: (Length of Sequence = 380 Nucleotides)

GGAAGAGGAG GAAGGTGGA CCTTCATCAG ACCACTCCCT TCCCCATCC TCCAGGAGAG GGGGCAAGGG CAACCCACCA
 TCTACCCACT TACTAACCTG GTCCTAACCC CCTTACTGTG CGCGTGTGTG TCGTGTGCG CACGCTCTGG CTGTTTGTCT
 ATATGTCTAG CTCATCTAGT TCCTCTTCTT AAGGGGATGG GGGTCAGGGG CTAGGGGAGG GGGCTGAGTT TCCCCACTTT
 AGGAGGAGGT GGGGGCTATT TCTATGCAA TAGAAATCAG CACATTCCCT CTACTTCCCT TTCTCCACT CCCCCATAT
 CTTTAAAGTG TGAAGCAGA AAAGGACCTG CATTTTCTCT ACAATTGAGG AGCTGACATA

SEQ ID NO:2344: (Length of Sequence = 282 Nucleotides)

GGGAATATAT TTATGCAAT TTTATTGAAA TTTATTGTAA ATAAAGNTTT TNCAGTGEN CTAGAAAANC AGCTTGAATG
 NCATTGACCA TTTATTGAAG AAGGATGACA TCCCTNCCAC TTATGACACA AACTTGGTAG CTTTGAGACA AATACAGTAG
 CACAGTCCGT TTGAAGATTT GTCCAAAAA TTAGTCCATA TTTTAGTGGC TCAGTGTCAA GNGTTCCCTC CCTGTGCCCC
 CACTGTTGCT TCTGCAGTGA TACGAAGGAT GAATGCTTAA TT

SEQ ID NO:2345: (Length of Sequence = 256 Nucleotides)

CTTTATAGGA AGCTGCAAAA GAAATGAGCA GAGCGNGATA TTTGTGGTAA GGGATACAAA GAACATACAA TTGTGTACTT
 GAGAGGTTTC ATGGAACATT ATGACCCATC CAATGNAGAC ATCAACATTA ACAACAAAA TTANTGAGG AAGAGCAGTA
 TGAAATATT CTAATGCAGT GCTGTCCAAC AGAACTTTCT GTGGTGATGG AAATGTTCCA TATCTTTGTG CTAATACAGA
 ATCTACCAGC CACATG

SEQ ID NO:2346: (Length of Sequence = 437 Nucleotides)

GTGGAGATTG ATGCTTCINT TTTTGTGTC CGCTGCTGCC CTCGCGCTGG GAGCGAGGCC GGAGGGAAGG CGGTGGAGAG
 ATGATGTCAG AGTGGGTGAG CAGCGCTCTG GGGCTGCGCT TGTATCTCAA CACCCTGAGT GGGGATTTCT GCTATGATGA
 CAGCGTGTCT ATCAAGACTA ATCAGGACCT TCTCCAGAA ACTCCATGGA CGCACATTTT CTACAATNAT TTTTGGGGGA
 CTCCTCTAAC CCACAGTGGC AGCCACAAGT CCTACCGGCC ACTCTGCACT CTTTCTTTTC GCGTGAACCA TGCCATTGGA
 GGGTGAATC CCTGGGAGCT ACCATCTTGT CAATGTCTG TTGCAATGCA GCAGTCACTG GTCTCTTCAAC AAAGCTTCTN
 CAAGATCCTC CTTTGGTGAT TGGATACTGG ACATTCA

SEQ ID NO:2347: (Length of Sequence = 406 Nucleotides)

CCCGCGCGCC GCTTTCGCC GGGGCGAGAC CCCCAGGTTT AAAATGAGCC TGTITGGAAC AACCTCAGGT TTTGGAACCA
 GTGGGACCAG CATGTTTGGC AGTGCAACTA CAGACAATCA CAATCCCATG AAGGATATTG AAGTAACATC ATCTCTGAT
 GATAGCATTG GTGTCTGTG TTTTAGCCCA CCAACCTTGC CGGGGAACCT TCTTATTGCA GGATCATGGG CTAATGATGT

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TCGCTGCTGG GAAGTTCAAG ACAGTGGACA GACCATTCCA AAAGCCCAGC AGATGCACAC TGGGCCTGTG CTTGATGTCT
GCTGGAGTTA CGATGGGAGC AAAGTGTITA CGGCATCGTG TGATAAACT GCCAAAATGT GGGGACCTCA GCAGTAACCA
AGCGAT

SEQ ID NO:2348: (Length of Sequence = 363 Nucleotides)

GGCCTTTCAA GNAGCGGCGG ANTTGCGCGA CCGCTGTAAG GAGGTACAGC AGATCCGCGA CCAGCACCCC AGCAAAATCC
CGGTGATCAT CGAGCGCTAC AAGGGTGAGA AGCAGCTGCC CGTCTGGAC AAGACCAAGT TTTTGGTCCC GGACCATGTC
AACATGAGCN AGTTGGTCAA GATCATCCGG CGCCGTCTGC AGCTGAACCC CACGCAGGCC TTCTTCTTGC TGGTGAACCA
GCACAGCATG GTGAGTNTNT CCACGCCCAT CGCGGACATC TACGAGCAGG AGAAAGACGA GGACGGCTTC CTCTATATGG
TCTACGGCTC CCAGGAAACC TTCGGCTTTC TGAGNCAGCA GTA

SEQ ID NO:2349: (Length of Sequence = 332 Nucleotides)

TCTCTACT GATGTCTTTC AGTAGATTCA GAAGTGATTG TGGCAAACAT AGTATCTTGA AGGAAGAGAT CGTGTTTTGA
TTAGCATCTC CCGAGCCTAG TTTTGTGTTT ATGTTTCATGG TATTGAGGAA ATAAAGATCA ATTTGGACTT CTTGCACCTG
TTAATACATC CTAGTTCCTG ACTGCAGCAA AATGACTCTC AGTGCCCTT TCTCTTCTTA GTGATTGCCT AAGATGACAG
CTTCATTCCC TTTTAATTAT TATCCACCTT CTTCCCCATC TTCANITGTT TTCTCAAGTG AGGGACTTGG CCTCTACTGG
GACTCCACTG GG

SEQ ID NO:2350: (Length of Sequence = 339 Nucleotides)

GAGATGGAGT CTCACCCCTT CGCCAGGCT GGAGTGCAAT GGCACGATCT CAGCTCACTG CAACCTCTTC CTCACAGGTT
CAAGCAATTC TCTGCCTCA GCCTCCCGAG TAGCTGAGAC TACAGGCGTG TGCCACCATG ACCGGCCAAT TTTTGTACT
TTTAGTAGAG ACAGGGTTTC ACCATGTTGG CCAGGCTCGC CCCGAAGTCC CGACCTCATG ATCCACCTGN CTCGGCCTCC
CAAAGTGCCG GGACCACAGG CATGAGNCAC CGCACCCAGA AAAAGCAAAT CTCTTAGTAT TTTTCTCTT GTCCAAAAGG
TTCTGACCAT GTTCATGAC

SEQ ID NO:2351: (Length of Sequence = 354 Nucleotides)

AGAAGGACCT GAGTTGTGGC CAACAACAGG CTGCAGAAAG GCAATGCCAT CCTGAAGATT TCTCAACTAA GAGTCTGCAC
CCATGACAGC CCACCGAGAC CCTCGCTCCA AGTTTGTGGA GAAAGGGAAC CCGCTTGGCA GCATGTGGAA AGACCCACCG
ATGAGCAGCA GACACAGCAA CGCTGCCTCC TACATCTCGA CAGCATCTGT GTAAGACTCG CTAGCATCTG GTGCACACAC
TGTATGAGAC AGCAACAGCC AGAACAGACA GCTTTACGTT GATGAACACA CAGACGGTGG CGCATGTTCA GAGATGCCGA
GGGGACGCG CAGTTCCCAA AATCACCTCT GGCC

SEQ ID NO:2352: (Length of Sequence = 378 Nucleotides)

GTGTTTGTGTT TAGTGGAACA CTCAAATCAA AAACAGGCTC ACGGTCTGAA TAGTCTTCTG GTCTAAGCAA CTCAGCACCA
GCGCCGCCAA GGGGAGGCCG CCTTGTCTT GGGCCCGGGA AGAGACGCAG CTCCAGCCCC GACGCAGACC CCATGGCGCA
CACAGGCAGG CAGAGCTCGA GGTNCAGGCG GCTGCCTTGC GGGAGTGGC TGGGGGAGGG TCCCTNGCTG AGGCTGCACC
AAGGGCTNGG GAGAGGCCCA GGAAGGGGAG AGCGAGCTGN GAGCTTGGGA TGGGAGCCGT GAGGTGGGGA TGGTTNGCA
GAGGGGCAGA GCCAAGGNC AAGGCAAGTT CTNGGGCCCC ACAAGCTTAT GGTGCGCA

SEQ ID NO:2353: (Length of Sequence = 369 Nucleotides)

CTGCCTTATA TAATGTGGAT GCTGGGCACA GAGCTGTCTT CTTTGACCGA TTCCGTGGAG TGCAGGACAT TGTGGTAGGG
GAAGGGACTC ATTTTCTCAT CCGTGGGTA CAGAAACCAA TTATCTTTGA CTGCCGTTCT CGACCACGTA ATGTGCCAGT

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CATCATTTGGT AGCAAAGATT TACAGAATGT CAACATCACA CTGCGCATCC TCTTCGGGCC TGTGCCCAGC CAGCTTCCTC
GCATCTTCAC CAGCATCGGA GAGGACTATG ATGAGCGTGT GCTGCCGTCC ATCACAACCTG AGATCCTCAA GTCAGTGGTG
GCTCGCTTTG ATNCTGGAGA ACTAATCACC CAGAGAGAGC TGGTCTTCA

SEQ ID NO:2354: (Length of Sequence = 363 Nucleotides)

GGAGAGGGAT TGGCATCGGC ACCATGGAGC TCCCAGGGCT TAGAGATGGA GCAAAGTTGG CCTCACCTTG GGGAAACCATT
CCTGCTCCTG GATACTGGAA GACATTCTGC TGCATCINAG GATTGATTCC AGTGCCAAAC TGTCTCCTA TGTTTCTGT
CATGCTCTG CTCACCATGC TGTTCGGTT GGCCAAGGAT GCTTCAGGAT TTNCTGCTAG TTGTGAAAAC GGGCTGGTAG
AAGCAGGTGG GGTTCCTGGG ATTTGTACCA TAGTTTNGTG GATAGGGGAA TTGCTGTGGA GCACCTTGAG GAAGACGGGG
GTINCCCAT TNACTGGTA GTCCAGATGA GGGAGGGAGG GTT

SEQ ID NO:2355: (Length of Sequence = 403 Nucleotides)

AACCAGGAAT GGAGGGCCTC CTCATGTCTG AGGTAGAGTA AGACGGTGTG AGGGGGCGGA CCGGGGGCG GAGATGAGCA
CCGGCCGCAC TGGGGCATCA TCCNGGCCA CCGGGACGA TGGGCGTGG GAGGGCTCAG GGCGGTGTGG TGGCCACACT
GCGAAGAATG GATTTTTAAA ACATTCATA GCCCCANIT TMTTCAGCT CCTCTCTGT GGACACAAC TCAGGGCTCC
CTGTCACTG GCTTTCGGGG GTGGTCTCCC CACTTCAGA GTCTGGTCTC CACAGGACAC CGTCTTCCC TTCCCTTCCA
AGGGGCAGGN CCCACGNACC CTCGCCAAA AANTAAAGGA GCTTTGTGT TGAACGCC AAGGCAAGCC GTCCAAGGA
GCT

SEQ ID NO:2356: (Length of Sequence = 456 Nucleotides)

GAAAGAAAA CAATTGGTCA AACCACAAGA AACTGTTC CITGAGCCTG AGAAGCCAAT TCAGATTCAA CCTGAATTT
GGTIGATTG GATTAAAGTA CGCAAAAGT CAATAGAACC ATTGANITTC AGAAATCATA AAGTTGCACT ATGCCAAGA
AAAGAGTACA TGTGAATCAA GCGTAGATAG AAAACATCAA GCCAAGAAAA CAACACANIT CACATAATTT TMTTGTCCC
GACAAACAT TTAAGCAGTT AATTTGTTT TGTTTGT TTTTGT TGAAGAACAN TTGTGGTCTT TTACATTTT
TTGGTGGGAG AGCAAATCT GATCAGCATT AGTGTCTGTA AATACTTTTG GNTTATCATC CCCCAGTNT AGGGTGAGAT
CATGAGGAAA NTTTTGGCAG TCCTCTCTC AGATTTNGT CACTNAAANT GCTTGG

SEQ ID NO:2357: (Length of Sequence = 412 Nucleotides)

CCACCCCATG CCCAACAAGC CATATTGTCA ATAAATAAGG AATAACTGAA ACCAGACCCT TTAGGAAGAG ACAGAAATTC
CATTACCCAG GAAACCACTC AGTGAAGATG CTGATAGTTC TGATATGTTT TTATGCCCTG CCCCCTTCCC CCAAAAAACC
ACCTGCAGAA CCAAATGTTT CTCTCAAAG CCCATCAGCA CAGATTGATA ATAATATCAC TATCAAGCCA GGGCTAGTGC
TTCTCTACAT ACTGTACTGT CACAGGTACA AAGCAAGCCC TGGACAGATA CTGTCTCCCT GCCCCACAA ATCCAGGGAG
GAAAAAGACC AGGGANGCIT TGATTTCCCT GGGATTTAAA CCTCATGTTT AAAAAGGNTA ATAAAGGTGC TCGTACTTGT
ATCTTCTTCC CT

SEQ ID NO:2358: (Length of Sequence = 399 Nucleotides)

AGATGGCAGC AGGTTCAGT GGGGCCCCCT GGATGCCTAA GCCTGGGGAC GACTACAGCT ACAATCAGTT TTCCACATAT
GGCGATGCCA ATGCCGCTGG TGCTTATTAT CAGGATTATT ACAGTGGTGG CTACTATCCT GCACAGGACC CGGCCCTGGT
CCCCCCCCAG GAAATGCCCC CAGATGCCTC CTTTCATGAT GACGAAGCAT TTAAGCGGCT GCAGGGCAAG AGGAACCGAG
GGAGAGAAGA AATCAACTTT GTGGAGATCA AAGGTGATGA CCAGCTCAGT GGGGCCAGC AATGGATGAC TAAGTCATG
ACAGAAGAGA AAACCATGAA GTCATTCAGC AAAAAGAAAG GTGAGCAGCC AACAGGCCAG CAGCGCGGG AAACACCAG

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SEQ ID NO:2359: (Length of Sequence = 352 Nucleotides)

CTTCATTAC AAGCTGCGAG AGAAGCTGGG TTGCCAGGAC GCCTTCCCCG AGGTGTACGA CAAGATCTGC AAGGCCGCCA
GGACTGAGCT GGAGCCCGCC TGGAGAGACA GACACGTGTG AGTGGTCAGG CATCTTCCT TCACTCAAGC TTGGCTGCTT
TCCTAGATCC AACTTTTCAA AGAGAAACCC CTCAGAACT CCCACCTGA CAGCCCAACA CCACCTTCCT CTTGGCTTCC
AGGGGGGCGAG CCCAGTGGAA TGGAAAGAAT GTGGGATTGT GAGTCAGACA AGCCTGAGTC CAGTTNCCCG TTAGAAGTC
ATTAGCTGTG TGACTCTGGG TGAGTCCCTT AA

SEQ ID NO:2360: (Length of Sequence = 359 Nucleotides)

TTTTTTTTCAG CATAGTCATC TTAGCTTTAT TGAGTAAGGC ATCCCAATCT CTGCTAAGAT TCINCTAAAT GAACGGCTGA
TTTCTCTGCC AACTATGCA TTGGTCAAAG AGAAATCACC ACCTGGCCAC CCCATTCTGT CCCCTACAG GACACTAAGG
GTCTTACAG ATAAAGGGAC GATGCATCA TGCCTGGAGA ACTAATCACA CCTGATTCT CTGGGATCTA AANTAATGTC
AAATTTTGAT TCACTTTATG TAAAGAAAAA TCCTTTTNTT TTNTGCAAA CCNCTTTCAA GANCAATGCT GCCCATCCCA
TGCAAGATGT TGTGTAAAG CCANCTCTG GTATACTAA

SEQ ID NO:2361: (Length of Sequence = 437 Nucleotides)

CTCCAGGATT CCAATCCAGT CGAACTCAA CACGAGGGGT GGCACCTACA GGCTGGGGTC AATCTGGAAG ACTGCCTGTT
GTATGGCCTG GCAACTAAAA AATGTTTTT ACATTTTAA ATGGTTAACA AAATTAAAT AAGAGAATAT TTCATGACAT
CATCAAATTA CACGAAATGC AAATTTACAG ATCTACAAAT ACAGTTTGAT TGGGACACAG CCACCTCAT CGGTTTCAG
GCTATCCCTG GCTGCTTACA GGTCCACAT AGTCCATAAA GCCTGAGGAT ATTTACTATC TGGCCTTTTA CAGAAAAAGG
TCCCAAACA CTAAATCTGA AATGTTTTGC ATCAGAAACC CTGTGGGGC TTGTAGGAA TGCAGCTCC TGGTCCACA
NCCAGTCTCT GGATTGAGTA AGTCTGGAGC AGGGCCT

SEQ ID NO:2362: (Length of Sequence = 317 Nucleotides)

CTTCTCTGGA TGTGCTGGG CTGGACTGG CTAGAATCTT TCTCTGACT NTGTCATGTA CAGTGNCTCC ATCCTGGAGG
CAAGAGAGTT GGGAGTGGCT CGAATCANAG CCGTGCCCAA GATATCCCTN CTGTTGCATC GTTGAAGCT GAGTCTCTGT
GTCINTACAC TGCTGCCACT GTGTNTCCT CGNTCTGCTT GCTGTGCTT CACGCCAGN CCCGCTCTGC CGTGACANCC
TTCATCTTAC CTTGGAACC CCAAGGCCAA GTTGGTTCAA ACTGTTGGAG AACAGAGTTG GCCTGCATCT TGAACA

SEQ ID NO:2363: (Length of Sequence = 412 Nucleotides)

GTCAGAGTNT TGATAGTTCT ACTGGGAGAC CACAAAATGA CATGGTCCAT CCTCCTCCTT ATCCAAAGAT GCATGGTTAA
AATAATATAG ATTAGGAATC ATCGTTACCT CCAAACAGTT AATTCAATC AAATTTTATG CCCAGACTGG TTTTAAAGA
CATTTTCTGC CAAAATTTT TGAAGTAAA CACATTAAGG GTAGGTGTGG AGAACGATTA ATGGATTCTT TTTTATACTC
ACATCTGTTT TGGAAATATA TTTTATGCAA TAAAGCATAA ACTAACAGGT ATACTTATAA ATGCTGGTT TTAGAAACAC
TAAAGATCT CCAATCTTAG GAGGCCTTAA TTTGAAACTC TGCTTTTATT TGCTGAACT AGTGGCTAAC CTGINTAGGC
ATCTCACGAG GG

SEQ ID NO:2364: (Length of Sequence = 334 Nucleotides)

GAAATGATTT AATATTAGGA AAGGCAAGN CCTCGAGACA TTTATTTAAG CTAATCTGTC CTGATTTT GACTTTCAGA
TTCATTACAC CCAGCCACAT TAGCCTGCAC CATTAAAAAC ATTGATTCAA CCTCTTTAT TGGCATAGAC AATACATCTG
CCTTGTTTAC TACTCTATCC TCAGCTTGGT ATTTCTCTAG CACAGAAGAA TGGTCCAGTA GATATGCTGA AGAAATACCT
GAATGCATAA ATAAATAAGA AAATGAGAGA CTGAATGANT CAATTAATAC CTCAAGTGT ACCCTNGATA AGGTTCTAGA
GAGGGGAGGT TCTA

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SEQ ID NO:2365: (Length of Sequence = 423 Nucleotides)

TTTTTTGCCA TTAAATAAGT ACTTTATTGA TATTATATCA CACAGCACTT TACAGTATAC TCAAAGATAG CCTAAATTAT
 GAATTAAACA TGCAATATT INCFTTTCCA AAATGTGGAC AAAATGTCTT TTAGAGTGCT TTTGAACACT AGCCTTAGCT
 ACTAAGCAIT CATGGGTTTG ATCTTTCTTG CGACATGACT TTAAGTAAAGT TAACAAAAAA TGTAGCTGTA GACAGTAATT
 GTTTGATAAA TATGANCAGT TTTAAAATGG CACTGAATTT ACATCTTTAA TCATTTTAAT AGGGCCATCC ACAGCCTCTC
 TTGTTCTCTT AATTCTCAAC CTCGGGGGTC TTTAAAGGGC TGGTAAAGGC TCAGAAAGTG NCCAGCTCCA TGTGGGGTCT
 CTGTAAGNNG TCTATGTCTT CAT

SEQ ID NO:2366: (Length of Sequence = 294 Nucleotides)

CCAGCCATAC ACATGCCTTT ATTTAGATCA GCTTTTTTCA AAATGCAGCC AAACCTATGA GTTGGACAGC CCAAAGTAAC
 CAGCCCTATT CCACTGAGTT AGTTTACCCC ACAGCAGTAG AACCCAGTGC TGGTTTGGTT CCTGGCCCAT GGTGGGACAG
 CGTGAAGGTG ATGGAGGGCT CTAGCACAAG GAGGTGCTGA GTGCCACCGG CAGGTGCTTC TGCAGACAGC CTAGAGCAAG
 GTAAGCAGGA GCACTCGNTT CAGAACCGAG GCGGCTCGGA CCAGAGGGCA GGCA

SEQ ID NO:2367: (Length of Sequence = 393 Nucleotides)

ACGGACAGAG CGAAGGGGAG AGGATGGTAG TGTCTGACTT CCACGTTTTC GTCAGGGATG TGTTCAGCA TGTGGATTCC
 ATGCAGAAAG ACTACCCTGG GCTTCCTGTC TCTCTCTGG GCCACTCCAT GGGAGGGGCC ATCGCCATCC TCACGGCCGC
 AGAGAGGGCG GGCCACTTCG CCGGCATGGT ACTCATTTG CCTCTGGTTC TTGCCAATCC TGAATCTGCA ACAACTTTCA
 AGGTCTTTGC TCGAAAGTG CTCAACCTTG TGCTGCCAAA CTINTCCCTC GGGCCCATCG ACTCCAGCGT GCTCTCTCGG
 AATAAGGACA GAGGTGACA TTTATAACTC AGACCCCTG ATCTTNCGG GGCANGGGCT NAAGGTGTG TTT

SEQ ID NO:2368: (Length of Sequence = 187 Nucleotides)

GATCTTGAAG TTAAACCACT GTTAGAAGTT TTGGTGGGA AGACAATTA GCACTCTCTT CTGGANGTAA TGGAAGAAGA
 AGAGCTGGCT AACCTGCGGG CCAGTCAGCG TGAGTATGAA GAACTACGGA ATAGTGAACG TCCTGAAGTT CAACGACTTG
 NAGAGCAAGA NAGGCGACAC CCAGAAG

SEQ ID NO:2369: (Length of Sequence = 341 Nucleotides)

GTATCTTTAG TAGAGGCGGG GTTCCACCAT GTTGGCCAGG CTGGTCTGCT ACTCCTGACC TCAGGTGATC ACCTGCCTCC
 TCGGCCTCCC AAAATGCTGG GATTACAAGC GTGAGCCACC GCGCCTGGCA CCATCAGTTT TTGATCCTGA TACTTGTCTG
 TCCTCTTGGT TCTCCTCATC CCTAATTTAA CCTTGAACAC AAAATTCAAC AGGTTTTGGC ATATAGAATA AAGATTATCA
 GGCAAAGGCG CACTCTTGAC CTAATGATAT ATCTACATTT CATTTCTGTA TCTATCAGCA ATATTTAATT TGTCTAGAAA
 TGATGAGAAG TTTAGAGGAG G

SEQ ID NO:2370: (Length of Sequence = 337 Nucleotides)

AGATCAAGAT CTCTCCCAA ATGCCAGTAT GCAAAGGACA CTGGGGCAG CCTCTCAACA TTTTCTGCCT GACTGATATG
 CAGCTGATTT GTGGGATCTG TGCTACTCGT GGGGAGCACA CCAAACATGT CTTCTGTTCT ATTGAAGATG CCTATGCTCA
 GGAAAGGGAT GCCTTTGAGT CCCTCTTCCA GAGCTTTGAG ACCTGGCGTC GGGGAGATGC TCTTTCTGCG TTGGATACCT
 TGGAAACTAG TAAGAGGAAA TCCCTACAGT TACTINGACTA AAGATTGAGA TAAAGTGAAG GAATTTTTTT GAGGAAGTTA
 CAACACACAC TTGGATC

SEQ ID NO:2371: (Length of Sequence = 320 Nucleotides)

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CGTGGCCGCA GAGGCAGCTG AGCATGAGGG ATGGAGCGTG CTGCTGTCTT GCAGGTGCCG TTAGCCCTGT TTTGCACTGG
TGGATTGATC TGCTCAGGCG CACAGGGAGA TGGCACAGCA GGACCCGCGG CCCAGCCTCG CTGAGGGCAT GCTCCCGCCT
CACCTCCAGA GGCTGTTGGG CGGAAGCGAG AGTGCGAGCA GTTGGGGCCA GCNTGGGACT GGAGGCCCAG GTGAATCTTG
TGGGGCAGGG GACGGAGCTN AGGCTGTCCG GCCCGGGCCC TTCCCACCCA AAGGCCCTAG AACCCTAGGC CTTCAATCCT

SEQ ID NO:2372: (Length of Sequence = 326 Nucleotides)

AGGCCTGGCA TCGGCGGAAA AGTTCCTGGA GAAGGCCTCC CCTTCCCCAA AACACCCGAG AAACGTGGGG ACCTCATTAT
TGAGTTTGAA GTGATCTTCC CCGAAAGGAT TCCCCAGACA TCAAGAACCG TACTTGAGCA GGTTCCTCCA ATATAGCTAT
CTGAGCTCCC CAAGGACTGA CCAGGGACCT TTCCAGAGCT CAAGGATTTT TGGACCTTTC TACCAGTTGT GGACCATGAG
AGGTGGGGAG GCGCCAGGGA GGGCTTTCTG ACTNCTGAAT GTTTTNCAGA GCATATATTA CAATCTTTCA AAGTCGCACA
CTAGGA

SEQ ID NO:2373: (Length of Sequence = 361 Nucleotides)

AGCAGAGCTG AGGGAAGGCG TAGGATGGCT CCAGCTTCCG GTCAGTGGCT ACATGGTCAG TTCCATGATG GCGTTGACGA
TGCTACTGTG GTTGTNTCTC AGAGCCCGCA CGGCCTTGGC CCTGGACACA TTGGCCTGCG CCATCACCAG CTCAATGTCA
CGCAGTTCCA GCGCCGCTC GTCCACCTCT TCCCTCCTCT CCTCTTCTCT TTCTTGACAC TCCAGCCTCA CCGGGGGCCT
GGGTGCTGAC TCAGGGACCA AGGCTGAGGG CTCTGAGGNN ACCTTAAACT TCTCAGCTGC GGCCTTTGTG ACTTGCTGGG
ACAAGTCTT CAATCTTGGN CTCGCCAAG ACCACATAAG T

SEQ ID NO:2374: (Length of Sequence = 281 Nucleotides)

TGACTCTAGT CTGGCACTTA TTGATGACAT TGAGAGGCTG AAATATGAAA TTNCAGAGGT GATGACAGAG ATCGACAATC
TAACCTCCGT AGAGGAGAGC AAAACGACTC AGAGGNACAA ACAGATAGCC ATGGGAAGAA AGAAATTCAA CATGNTCCG
AAAAAGGGAA TTCAGTTTCT AATAGAAAAT GACCTGCTAC AGAGTTCCCC AGAAGACGTC GCCAGTTCC TTATATAAGG
AGAAGGCTTA AATAAGACCG TCATTGGGGA CTACCTGNGG T

SEQ ID NO:2375: (Length of Sequence = 391 Nucleotides)

ATGTTTAGTG CTTCTTCAG GAGCTCTGGT AGGGCAGGTC TGGTGGTGAC AAAATCTCTC AGCATTGCTG TGCTGTAAA
GGATTTTATT TCTCTTCAC TTATGAAGCT CAGTTTGGCT GGATATGAAA TTCTGGGTG AAAATCTTT TCTTTAAGAA
TGTTGAATAT TGGCCCCAC TCTCTCTGG CTGTACAGT TTCTGCTGAA AGATCTGCTG TTAGTCTGAT GGGCTTCCCT
TTGTGAGTAA CCGACCTTT CTCTCTGGCT GCCCTTAACA TTTTTCCTT CATTTCAACT TTGGTGAATC TGACAATTGT
GTATCTTGA GTTCTGTTC TCGAGGAGGC AACCTTTGTG GCGTCTCTCT GTAATTTCCC CGAATTGAA A

SEQ ID NO:2376: (Length of Sequence = 324 Nucleotides)

CCAGCCCTCC CTCAGCTGGG AACACAGCCA GGTGCCCTCA GACCCCTGNN TCTGCACAAG GGGGGCCTGC CCCCTGCCCC
CAGCTATATA CACGACAGCC CATCCTGCTG GCGGTGGACA AAAGCTGGGA GCTCCTGTGC CCAGTCAGGA GCGCCTACAG
TCCACCAGCT GCGCGGCCGG GTCCAGGGGC CCACTGTGGT GCCAGCNA GTTTCAAAAC CNAGGGCCCA GCGCCAGCTG
GCNCTNGCC AAGCCCCAGG CCTGTTTGCT GGGATGGAGC CTCCACTG AGGCTGGTAA AAGCTTGAAC TCAACAGCAG
CAAT

SEQ ID NO:2377: (Length of Sequence = 357 Nucleotides)

GTTTATGTTT TTATTTATGT ATTTTAAC TGACTTATTGT GTATCCCACT AGAACAATAC ATTCAATA TACTTGAGA
ACTGTGCTG GTGCGTCATG GGAGCAGAGA ACTTGTCCAG TGAATAGTTG TTGAAGAAAG GAGTAAATC TCCCCAAC

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CCTAAAGGCA TCCTTTTCGT AGTGTGTGTC CCATAGGTAT GGCTGCTGAG CACCAGGGCT GCTCACCATG CTCCCAAGAA
GCAGAGTCAG GGAGGCAGAC AGCAGGGTTT ATTAAGGTGC ACACCCATGT CTGAGCCCCA GCTCTCTCCG NCTTCTGTGG
GGAGGAAGCC CTCGGTCTT TCCGAGGAAC CTTCAAA

SEQ ID NO:2378: (Length of Sequence = 454 Nucleotides)

GACGGGTCTT TCAATAGCAA GTTTTCACTT CATCGACAAC ATCAGGAAGG TGGTAACAAA CAAATGCTTT ATCAGGCTGG
ACTTCATTTC AAACCTCCCC AAAGCACAGA TCCATTACGC ACATTTAAAG ATACCATCTA CCTTACTCAG GTGATGCAGG
CCCAGTGTGT CAAAACAGAA ACTGAATTCT ACCGCGTAG TCGCAGCGAG ATAGTGGATC AGCAAGGGCA CACGATGGGG
GCACTTTATT GGCAGTTGAA TGACATCTGG CAAGCTCCTT CCTGGGGCTT CTCTTGAGTA CGGAGGGAAA GTGGAAAATG
CTTCATTACT TTGCTCAGAA TTTCTTTGCT CCACTGTGTC CAGTAGGCTT TTGAGGAATG AAAACACGGT CTATATCTAT
GGGTGTGTCA GATCTTCACT CGGATTATTC GATGACACTC AGTGTGAGGA GTCC

SEQ ID NO:2379: (Length of Sequence = 224 Nucleotides)

GGAAGAGACC TCACAGGTNA TTAAANGTGT AITTTNTGGA CCTGGGCTTG GCTGGAATGC TCAGGGGTCC TGAAGATCCT
ATTATAGCTT CCTTCTGTG AACCATTAG AAAAGATGGC GANAGTCAAC ATAAC TAGAG ACCTCATCCG TAGNAGATCA
AGGAGCGGGG TGCCCTTAGC TTINAGCGGC GCTACCATGT CACTGTNCCC TTTATCCGGC GGCT

SEQ ID NO:2380: (Length of Sequence = 274 Nucleotides)

AGGTTTGAAA TATCTTTTTC CAATAGATAA TCTTATTTAC ATTAATACAG AATCATTTTA CATTOCTAAA TCAGACACTA
ATAGATGCTT TATTTTAGTG AATTATAAAG GAAAACAAA AGGAACTGT TGAGAAGTGT TCTTCATTAA CNGTCTAAC
GNCAGCCCGA AGATCCNGNA ACACATGGAA ACTGCGNCAT GCINCCNGCA GAGGCTGGGG AATGGGGGTT CTGCTCTCAC
TGAATGGTGG GGAACCTTCA ACTGCTTAGC CTGT

SEQ ID NO:2381: (Length of Sequence = 312 Nucleotides)

GCACAAACAG TTTTATTTGA TGANCCACAG TGAATAACAG GNTCAGAAGA CAGTGCAGAT ATTCTGAAGA AGGCACTGNG
GGAGGTAAGG GGGTATCACA GCAGGCAGCC TCTCTGNTT CTNTCCAGT TCACAGATGA GTTCCAGGCA GGAAGTCTCT
GCAGGTCACC CACGGCGGCC TCAGAGGGAC AATTTNTTCC CTCTAGAAG CTTNTTCCAG TGTTCACTGG ATGNTTTGAG
GACAGNTCTG GGCAGAGGAG GTGACTCTGT GAAAGATGCT ATCTTAAGAT GGGGAGACTA GGCTGTGAGG AG

SEQ ID NO:2382: (Length of Sequence = 402 Nucleotides)

CTTAAACTAA CTTTGAAGCA AGTAATGTCA ACTTTGAGCA CTTTGTGTGAG TTTTGAAAAA TCTTATTTGT TGCTGCACAG
GTTAATAAAT TATCAATTIG TAATTCAGCA TGTGTTGTCAG AGACACGGTC ACTGATTCAC ACCAGTCCC TGCCACAGAC
CGTCTCAGAC ACGCACAGTG GGCTGTCTGC ATGATTACCA CCCAGTCCCT GCCACAGACC GTCTCAGACA CGCACAGTGG
GCTGTCTGCA TGCGTGTAC CTGGCTTTTG GCTCCAGCT CACTCATAGC CATGTCCACA TGGGGGGCTT GCACACAGGA
TCACTCACAT ATGTACATGT ACCCACCACA AACGTGCAAA GCTCCTTGCA CACATGCATG CACACAAACG TGGTACACAA
GT

SEQ ID NO:2383: (Length of Sequence = 406 Nucleotides)

GACCCPTTTC ACTTAGCCCT CTTGGGTTTG CAACATGCTT TCTCTCTCAC CTTCTCATTG AATGAGAAAA AACAGCCCAG
CCATTTTTTTG CAAACAGCAA AGCACCAGAG TGATGATGGC TTTGCTCATC TCACTTGAAT TTCACAGTAA CTCAGTTTGA
TGTAGGCAGT CCAGGCATTA TTATTTTCAT TTTACAGATG ATGCAACTGA GGCTCAGTGT GGTGAAACAT TTGGCTCATA
GCCACACAGC TGATAAGCAT CAGGGAATTG GGACCTAGGN CTTACATTTT CAAGTCAGCT GTATCTGTCC CCAAGCCCCA

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CCAGACTTCA TGTAAGGTG GCTGCTTCTG GGGTGATGGT GGCTGGAGAG GCAGACTTTG AGGCTGCCAT GCTCTTATTT
TCAGAT

SEQ ID NO:2384: (Length of Sequence = 165 Nucleotides)

TTAAGACAAT AATGAAAGAT TCTGTACAAA GTTACCAAGT CTACAGGCTG AGCGAGCCAA GGGTAAGTGG GGCCTGATCC
TTGTGGACGA ATGTCNCCGG GAGAGCTGGC CTCACCTGGG GGAGGCACGT TGAAAAAGTA CACATTTACA GGGCTCGGA
AAGGC

SEQ ID NO:2385: (Length of Sequence = 297 Nucleotides)

GGTTTTNATT CATTCTCTC TATTAACTC TCTAAAGGAA ATTGGGCACC TGTAAATCCCA GCACTTTGGG AGGCTGAGGT
GGGTGGGTCA CTTTNAGGTC AGGAGTTCAA GACCAACCTG GCCAGCATGG TGAAAACCCA TCTCTACTAA AAATACAAAA
NTTAGCCAGG CTGGTGGTGT TCGCTGTAA TCCCAGCTAC TCAGGAGGCT GAGGCAGGAG AATTGTTTGA ACCTGGGAGG
CGGNGGTGC AGTGAGCTGA GATCGTGCCA CTGCATTCCA GCCCAGGGTG ACAGAGT

SEQ ID NO:2386: (Length of Sequence = 290 Nucleotides)

AAAAAATAAA GTGAATTAT TGGTTCATGT AACTGGAAAG TCTCATGAAA ATGTCAGCTT CAGGAGAAGC TTGACCCAGC
AGCTTCATGA TGTATGGAAA TACCTGGGTT TTTGTCTCT NCTCTGCTAC TGTGGTATCA GCTTTATTCC AAGTCTGGCT
TCCTTTGTTG TTGCAAAATG CTTTGTGAGA AGAAGCCTGG GTCCATCTGT TAGGNTTAAG TTTACTCTGT ATGCTGTAGT
AGTGGCTATG ACAAGATTAG GAAGTGTATT TTCTCTCCC ATATTAAAG

SEQ ID NO:2387: (Length of Sequence = 356 Nucleotides)

GTCATCTGTA TGTTCACATG AAATGCACAT CCAAAACGGG TGACTTGGAA ACGACCTATT AGGTCACACG GAGTCCGGCC
CCTGGGGGCA AAGCCTCATC GATGCCACG GCGGTGGCC AGCACTTTC TTGGGCTGTG GCGTGTGCAC CCGGCCTCCC
CAGCGGAGAG TCAGCTCACA CCCCAGGCCC TTTAGCTCTC TGGCAGCAGC TCCCAAAACG CACTTGAGGA ACCAATAATT
CCTTGGGGGT TAATAGCTGT TCCCCAAGAA AAGGGTCTG TGGTCAAAT AAGTTTAGGA AAACATGGGT TAAAGAAGGT
TTAGGCAAGA AGCTTTTCTA TAGGGCTTGT TCAGAG

SEQ ID NO:2388: (Length of Sequence = 226 Nucleotides)

ATTATTGGTA TAAAACTTA AGACGGCATT AGAATTCTTA AGAAAAGGTG TAAAATTTAA AAAGATGTGC AAACAACAA
GAATGCCCCG CCTGAACCA GACCTAAGC ACCTCCANT TCCTCCACAC ATCATGCCCC AACACCATCC AGCCCAATCG
GACACCAGGA CAGTGAGGA CCGGTGGCTG TTCAGTGGC AACAGATCTG GAAGGAAAGA TTTTCA

SEQ ID NO:2389: (Length of Sequence = 250 Nucleotides)

CCCAGCTAGG CCTTGGNATG GCINCACTGA GGAGAAATCC CGGGAAGTGT ATTGAACAAA AGATTCTNAT TGCATTGTA
TTTTTNTATT AAGTTTGCA TGGTTTCTAA TAAAGGATTC AAACATAAGT TTGTAGTGAA ATGGCCTGEN AGATTCCAAG
GGCTTCTCIN GAAGGGGGAT TENGCTGCAN TGTAGATTIN CCTCTGAAGG AGGCTGGCCC CAACTTGEN CCTCTCATG
ACCCCTCTCT

SEQ ID NO:2390: (Length of Sequence = 371 Nucleotides)

CCTTTTTCTG GAGAACGGGG TCTCGCTATA TTGCCAGGC AGGTCTCGAA CTCTGGGCT CAAGCTATCC TCCCGCCTCT
NAGCCTCCGT TTCCAGAAGG TCACCAAGTA ATATCTGCTT TTCATCAGTT GCAGTTAAGA TTTTNNTTTC TTGAAATACT
GGTTTTCAA CAGATCAGAA TTACCTGGGG AGCTTGTTTA AAATATAAAT GCCCAAGGC CAGCTCCAGG ACATTCTGAC

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TCCATAGGTA TGTGGTAAGC CCAGGGAATC CAGGTAAGCT CAGGTAAGCC CAGGGTAAGC CAGGGAATTG TTAACAGGAA
GCTGGTGGGT TTCTGGCACC TNGACANCGA CTGAATTCTA GGTAGCTTGC C

SEQ ID NO:2391: (Length of Sequence = 200 Nucleotides)

CAGTTCAGCA GGCTATGAAA TTGTGTGGGC ATATAAANAA CTGGAACITTT CAACAGGGTG GTTTTGAAAC TAGNGCATT
ACCAATAAAT GNCAACCCA CAAGGACAGT GCATTGTGTC ACATAGANGA TCTGGAAAGT ACAGCTGTAA ACTATAATCN
CCAGTCTCTG AGTTAGCACC TTTCCACGNT AGTCTCTTAC

SEQ ID NO:2392: (Length of Sequence = 234 Nucleotides)

TGCCTGAGGT GTTTGGTTTG GAATAGGGAA AAAGGTAAGA GACTAACGTG GAAAGGTGCT AACTCAGAGA CTGGAGATT
TAGTTTACAG CTGACTTTT CAGATCTTCT ATGTGACACA ATGCACTGTC CTGTGGGTT TGTCAITTTAT TGGTTAATNC
TCTAGTTTCA AAACCACCT GTTGAAAGT CCAGNTATTT ATATGCCAA CAAATTTTCAT AGCCTGCTGA ACTG

SEQ ID NO:2393: (Length of Sequence = 337 Nucleotides)

TCCAGAGGCG GATTGAGAAG AAAGGAGATC CACATGAAAT GAAGATCACC TCTGCCTATC TACAGGACAT TGAGAATGCC
TATAAGAAAA CCTTCTCCC TGAGATGAGT GAAAAATGTG AGGNTTTACA GTATTCTGCA AGGGAAGCTC AAGATTCAAA
AAAGGTGGTA GAGGACATTG AATACCTGAA GTTCGATAAA GGGCGGTGGC TCAAGCAGGA CAATCGCACT TTATACCACC
TGCGATTACT GGTTCAGGAT AAGTTTGAGG TGCTGAATTA CACAAGCATT CCTATCTTTN TNCGGAGT CACCATTGGA
GCTCATCAGA CTGACCG

SEQ ID NO:2394: (Length of Sequence = 211 Nucleotides)

CAAATGTTTA TTTTATATAC AAAGAATTAT CATGGTTTIN CATGAGTAG ATGCCCCGGA TAATCCTCTG AAGGAAGAGC
ATTTAGTCCA ACTTAATGAA ACCGATATCC TTGCGTACT GACGGAAACA CTGGCGGCAC ATATTGAGGC CATATTTCCG
GATCANACCG TGCCGGTTTG AACAGACACG ACAAGAGCGA GAACCTGCG C

SEQ ID NO:2395: (Length of Sequence = 335 Nucleotides)

CTGAAAGCTG TAACACCCTC AGGTAATAAC AAAAGGGATT TTTATTTTAC AGCTAAAGGG AAAATAGGTG GAGAAGTTAA
AAAATAATGT CTGATCCTGT TCCTAAGTTC CAACTATAG CCAACACTCT GATGCTGCTC TTTTCTTGT AGGACCAACC
GTCCAGTTT GCCTGGGACT TTCTCATTTT TACAGAGTCC CAAATCCTAG GAACTGGAG CAACTGGTAC AACTGGTCAC
CTACTCTTGC CCTCTGGTA AATCAAGNCA ACTGTGACCA TCCAATGTGC CATCTTACAG GGNAAAGTTA TAACCCACTA
TTCCCTATA ACATA

SEQ ID NO:2396: (Length of Sequence = 223 Nucleotides)

AGGGAGATCC AGCTCCGTCC TGCTGCAGC AGCACAACCC TGCAACCCA CCATGGATGT CTTCAAGAAG GGCTTCTCCA
TGCCCAAGGA GGGNGTGGTG GGTGCGGTGG AAAAGACCAA GCAGGGGGTG ACGGAAGCAG CTGAGAAGAC CAAGGAGGGG
GTCATGATG TGGGATTACA TTTTTTTTTT AAAGAAAGAA TAAATTAATT GTGATTAAAG TTG

SEQ ID NO:2397: (Length of Sequence = 379 Nucleotides)

CCATTACAAA GAATGTGGCA ACTTGCTTNT NCCTAAAAGG AGGAATTGGA ACTAGAATGT GTGACTCTGT GGGGACTGCA
TAGGTTTGT AATTGACCTA TAGCTAAACC TTAATGTGTT TGTGTGCTA TACATTGCTT TCCGCATTTC AAGACATCCA
GACGCTATTA CCAACATTTT CCTGTGCATT AACCTCTGCA TGTGAAACT TTTAACAGTT ACTGAACTAT GTAAATATGT

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GAATTTTTTTT ATTTAGGTGG ATGCATTTTT NGTCTGTTTA CTGCTCTTCT CAGCTTTATT CAATAAACTT GCATTTTAAAG
GGTTGTATTG GCAATTTTAA CTTAAATGT GCATCATGAT GGAAGGTGCA GACCTTTTT

SEQ ID NO:2398: (Length of Sequence = 421 Nucleotides)

GACAGGTTGG TCTTACCCAC TGGNTCCCAG TCATGCTGTA AACAGGGCTT GCTTTGGAGT CTGTCAGACC TGGCTTAGAC
CCAGGCTCTG ACCAAATGGG TGAGTTATGC AGCTACTTGG TGGCATCTAA TACCCATATCG CAAAGGACTG CCGTGAACAG
GAAGGAGGTG TCAAATTTGG CAGTGCCTGA TGAGGTGAGG CCAGGACCCA GGAACCTCTA TTCCCTCCCA TGCTCAGGAA
CAGTAAGTGT TCTTCTATCT GCAGAGGTAG ATGCTTAGCA CATCGTGGGT ACTTCACTCA TGATTGCTAA AATTTGAATT
TGTGGATAAA GTCATTTCAA AAGTCAGATT CTAGGACCAA AAATACAATA TCTGTCCAAC ATGGAAGTGT TAGATCATGG
TTTTTCCTTC CAGCCCCAGG A

SEQ ID NO:2399: (Length of Sequence = 392 Nucleotides)

GATAAGCTTG ATATCGAAAG TNCCACAATG GGTCAGCTGT ACCAGGAACA CCATGAAGAA GACTTCTTTC TCTACATTGC
CTACAGTGAC GAAAGTGTCT ACGGTCTGTN AAGCTGCTGC CCTGAGCTG GAGGGGGGTC TCATTCTACA AAGAGAGAGG
TGCCCCCCTT TTCTTGACCT CCTCCTCCTT CAAGCTCAAA CACCACCTCC CTTATTTCAGG ACCGGCACTT CTTAATGTTT
GTGGCTTTCT CTCCAGCCTC TCTTAGGAGG GGTAATGGTG GAGTTGGCAT CTTGTAACTC TCCTTCTCC TTTCTTCCCC
TTTCTCTGCC CGNCTTTCCC ATCCTGCTGT AGACTTCTTG ATTGTGAGTC TGTGGTCACA TCCAGTGGAT TG

SEQ ID NO:2400: (Length of Sequence = 366 Nucleotides)

CTGGGGAAGG ACTGGCACAA GTTCTGCCN AAGTGCGAGC GCTGCAGCAA GACGCTGACG CCGGGGGGCC ACGCCGAGCA
TGACGGGAAG CCGTCTGCTC ACAAGCCGTG CTACGCCACC CTGTTGGGAC CCAAAGGCGT GAACATCGGG GGCCTGGCT
CCTACATCTA CGAGAAGCCC CTGGNGGAGG GGCCGCAGGT CACCGGCCCC ATCGAGGTCC CCGGGGCCCG AGCAGAGGAG
CGGAAGGCGA GCNGCCCCC GAAGGCCNCA GCAGAGCCTC CAGTGTACCC ACTTTCACCG GGGAGCCCCA CACGTGCCCG
CGCTGCAGCA AAGAAGGTGT ACTTCGCTTG AGAAGGTGAC GTCTCT

SEQ ID NO:2401: (Length of Sequence = 385 Nucleotides)

CATCCACCCA GGGATTAGGG TTCAAGTAGC AGCTGCTAAC CCTTGACCA GCCCTGTGG GACTCCCAAC ACAAGACAAA
GCTCAGGATG CTGGTGATGC TAGGAAGATG TCCCTCCCT CACTGCCCCA CATTCTCCA GTGGCTCTAC CAGCCTCACC
CATCAAACCA GTGAATTCT CAATCTTGCC TCACAGTGAC TGCAGGCCA AGCGGNCATC CACCAAGCAT CAAGTTGGAG
AAAAGGGAAC CCAAGCAGTA GAGAGCGATA TTGGAGTCTT TTGTTTCATC AAATCTTGA TTTTTTTTTT TCCCTAAGAG
ATTCTCTTT TAGGGGGAAT GGGAAACGGA CACCTCATAA AGGGTTTCAA AGATCATCAA TTTTT

SEQ ID NO:2402: (Length of Sequence = 392 Nucleotides)

AAAGAACTTG GTATCTCTAT TAAAGTACAT GANCTCCAA GGAAATAGA GCGATTTACT CTCTCCAAT CAGTGCATAT
TTACAAGAAG CACAGAGTTC AGTATGAAAT GAGAACACTT TACAGATGT TAGAGTTAGA ACATCTAACT GGAAGCACAG
CAGATGTCTA CTTGGAATAT ATTACGGAA ACTTACCTGA AGGGGTTGCC ATGGAAGTAA CAAAGACACA ATTAGAACAG
TTACCAGAAC ACATCAAGGA GCCAATCTGG GAAACACTAT CAGAAGAAA AGAAGAAAGC AAGTCATAA GCCTTCAGGG
AGGCCATTTT TGCCTAAATT TTGAAATGAG GGTGGGCCAG ATGAGTATGT TTAAGTGGAG AGTGCTTTCC AG

SEQ ID NO:2403: (Length of Sequence = 179 Nucleotides)

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TCATTAAGTT ATACTCTTGG ATAGGAACAC TGAGGAAAAA TGAAAGATGA GATTGCAAT AGGGATTCTC TAATTCTCAT
GTAATCIGT TTGTIACCAT TTTTACTTTG TCTTTTGGG ATCTCTTCTT TTTATTAGAT GATATTAAAG GGGATTAAAG
TTGTATTGTA TGAATGTC

SEQ ID NO:2404: (Length of Sequence = 399 Nucleotides)

TTCCCAAAGT GGTGTGAACA TTTTACACTC CTACTAACAG TGCATGGGAA GCCAGTTTCT CTATATCCTC TCCAACATTT
GGTGCTGTCA ATCTTTTAAA ATTMTAGCCA TTTTGTGGT TGTATAGTGT TATCTCATTG CAGTTTTAAT TTGCCGATCC
CTGAATGTGT GTAGGTGTGT ATATGTATTA TATAATATAT ATATNATNCT TTCACTTATT TTGAAGTAAT TTCAAAGTTT
CCAGAATAAT ATCAAGAACT CCTGTACTCC CTTGCCGAGA TTCTCCAATT GTAATGTTTT ATTGCATATG CTCCATTGCC
CATTCTCCTC TCTACTTATA GCTTGCATTA GTGTTTTCTT GGAACCNITA GAGATGAAGG TGGAAAAAAG GATGCGGGT

SEQ ID NO:2405: (Length of Sequence = 404 Nucleotides)

GGAACAGAGT GACCTGACCA CCTAACATC AGCTGCATAC CAGCAGAGCC TGACTGTTCA CACAGGAACT CATCTCCTCA
GCATGCAGGG GAGCCCTGGA GGACACAATC GCCCAGGCAC CCTCATGGCA GCTGACAGAG CCAAACAAAT GTTTGGACCC
CAAGTGCTTA CGACCCGGCA CTACGTGGSC TCAGCAGCTG CTTTTCGAGG GACACCAGAG CATGGACAAT TCCAAGGCAG
TCCTGGTGGT GCCTATGGGA CTGCTCAGCC CCCACCTCAC TATGGGCCCA CACAGCCAGC TTATAGTCCT AGTCAGCAGC
TCAGAGCTCC TTCGGCATTG CCTGCAGTGC AGTTACCTAT CTTCAGCCAC AGCCACAGGC CTATTGCTGT GCATGGGCCA
TTTT

SEQ ID NO:2406: (Length of Sequence = 280 Nucleotides)

AAGAGAGAAC ATTTTATTTG TCTATAATTA GGGTAAACAG TTGGGTAAAA YCTTACTAAA AGAAAGTTAA GGTGTCTTA
ACACAAGATA TATAATGNCA TAAATYAGTT AATTAAATTT YAATTAAAAM CAGCTGCTTT GGAAATCCAA CATGTATACT
TCAAATAAT TTACCTAAAT AACTTATGAA AATGGATGTT ATTGTACAAC TCATCTCTCC TTATAAAAGG NGAACAAAGG
ACATAGGAAA GCTGAAAAGA AGGCTAGATG AAGATACAGG

SEQ ID NO:2407: (Length of Sequence = 350 Nucleotides)

TCCAAGGGCA ATATAATTA CAGTATGCAA AACATACTGA CTGGCTGAGG TAAAACGCAC TGCTCCTGCC TCACTCACC
ATGAGGGGAA ACACACATAT GCTTTTAAAA ACATCTGGCT TATAAAAAAA CATCCCCTAG AAAGGCCTCC AGAGAGGGGC
TGIGAGGCTC ACCCTCTGCC GCGCTCAGGA GGACCCGCCG GCTCAGCCCT GGCCCTCCA CTGCAGCCAT GGTGGCGGCC
TCCCCCTACT GCTGCCCCAG GGCTCTGTCC AGGTGCTCTT TGATGGTGTG GAGGAAGTCC GTGGTGTICA GGAAGTGCTC
GTTGAGCTTC ACATTGCTGA GGCCGTGAAT

SEQ ID NO:2408: (Length of Sequence = 239 Nucleotides)

ATNGNITTTG GGTGCGNAGA AATGGATGTG CGGAAGAAGA AGAAGAAAAA AAATCAGCAG CTGAAAGANC CAGAGGCAGC
AGGGCCTGTG GGGACAGAGC CCACAGTGA GACACTGGAG CCTCTGNAG TCTGTNCCC GTCCACCACC AAGAAGAGGA
AGAAGCCCAA AGGGAAAGAA ACCTTCGAGC CAGAAGACAA GACAGTGAAG CAGGAACAGA TTAACACTGA GCCTCTAGA

SEQ ID NO:2409: (Length of Sequence = 331 Nucleotides)

TCTTTCAAG AATTTTCAGC CAATCGACCG TCTGTCTCT TTAAGGCTTA GGAAGAGCAG TGTGGCTGCC CCTTTAAGGA
GGCGTTGCAA CAAACCATAT TGGACAGAGC ATGGGGGCGA CCCATCGGGA CCCGACGGGC CTCGTACTCC AGCAATACAG
CGAATCAGCG GCTTTCGGGA ATACATTTTT CGGAAAAGA CTTCTCCTC GGTTTTCTGC TCTGCACAG TGAAATTTT

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CCCCAGTTTT TCCTGCAGAT CGGGAGTCGA GCAATGCCTA CCCCCGCTC CGCACCAGT TGGGCGCTCC CGGATGATGC
CCTACCCCTT T

SEQ ID NO:2410: (Length of Sequence = 135 Nucleotides)

CTGCAGGACT TGCGAAGAGC GTGCATTCCC AGTGGGCGAA CGGGAATTCG AACGGAGAGA GGGTTATCTT GTGGGGGGCT
ACCCGTGGAG AGCAAGGCGC CCCAGGGGT TGGNTCGGTG AAATTNAGGT CGCCC

SEQ ID NO:2411: (Length of Sequence = 330 Nucleotides)

ATGCTGCTCG GTTCTCTGT CCCCCAACT TTACCGCGAA GCCCCAGCCT CAGAGTCCCC TCGTTTCTCC TTGGAGGCGC
TGACGGGTCC AGATAACGAG CTGTGGCTTA TTCAGGCCCC TGCAGACTTT GCCCCAGAAT GCTTCAATGG GCGGCATGTG
CCTCTINTCTG GCTCCACGAT CGTCAAGGGC AAATTGGCAG GCAAGCGSCA CCGCTATCGG AGTCTCAGC AGCTGTCCCC
AAGCTGGAGA AGCGACCTG CTGGCCCCCT CAANGGAGGC AGGAGGTGGA CTCACCTGTG CCTCAGCCCC CCAGGGCACC
CTAAGGATCC

SEQ ID NO:2412: (Length of Sequence = 583 Nucleotides)

TGCACCGGTG CACCAGGTGC CCGTGTGGAT TGINACAGNN ACGTGGGTNA TGAAGGTAAC CACCTACCGN GTGCACGTGG
CCNAGCAGCA GGACGTGCAC CTGACTGTA CCGAGTCTCG GCAGCATGAG CTCTCGCCAG ACTCGAACTT GCCCGTGCAG
CTCCTCACCA TCCGTGTGGC CAGCACCAAC CCTGCTGTGC AGGCCTTTGA CATCTGGCTG AACTCCACTG AGTACGGGGA
GCTCTGCGAG AAGCTCCGGG CACCCATCCG CAGGGCAGCC CATGTGGTCA TCCACCAGAG OCTGGGCGAC CTNTTNTTGG
AGACATTTGC CTCCTGGTA GAGGTCAACC CCGCTACTC AGTGCCAGC AGCCAGGAGC TGGAGGCCTG CATAGGCTTG
CATGCAGACA CGTGCCAACG TGAAGNTGTT GAAGACCTGC CAGGAGTCAG CCACAGGGGA GTTCCAGCAG TTTTAATTNC
CGCCCCATGT TGGTGGCTTA ACTTGATNGG GAAAGTGGNT TNGNCAAGCG GCAAGACCCC CTTGGGNCIT NAACTTGNT
TGGCAAACGG GGTNCCTGCA TGG

SEQ ID NO:2413: (Length of Sequence = 203 Nucleotides)

TGTCCTCCC ACCCCCTAGC CATGCAGNGG TGAATNGGGG AACCAGGNN GGGGGCTGAG AAGCTCCAGG CCACCTINAG
GGAATCCACG AGGGTCTTTC TACCAGGAAG AAGTGCCGA GCTGCGTGGC CGCCGAGACC ACGCGGGAGG TGATCTGGTG
GGACAAACGT TCCGTCTGCT CCCGAGTCAG GAGATCGAGT CTC

SEQ ID NO:2414: (Length of Sequence = 92 Nucleotides)

AAGGGGCAGG ATGGGCTGG GAAGTCCAAC CCCACGCATT TGGGCTCAGC CTTGGACATG GAGGCCTGAC AGCTGTGTGC
CTTTGGGGAT CC

SEQ ID NO:2415: (Length of Sequence = 401 Nucleotides)

CTTTTCCCTT CTGTGNCCTA AATGCANCAT CTINATACAC GTTGCTTAAC CTAGAANCGT GGCTCCACCG TGAATTCTAA
TTGGTCCGTG CTATCGAGGC ACTGTCCCTT TAACTGGTCT CGCTCCAGTG GCCCCNACTG CTTTCTTCC TCTTCCAGNA
ATGGCTCTTC GGGCCCAGAG TTCGAATCTC GCGATCGGGA TGGGGACGGA GTACCGGCCT GGGGTGTCCC AGAGCCCGGA
CTGAGCTGGG GAGTCAAGAC CTCGGGCGAT GAGGGCTGAG CAAGTCGGAG TCGTAGGTCC AGTCTTCCC CAGCTTCTCC
TGTCTCCAAT CTGTTGGGTT CTGGGGTTC TTGCTCTCC AGCGGGGTGG AGCTGCTGGT GGAAGAGTCC TCCCCGGATC
C

SEQ ID NO:2416: (Length of Sequence = 245 Nucleotides)

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ATGTAATACA GTGTAGAAAG CGATCATGTC ATAAGCAATG ATTCTGTACA ATCATNCNGC AGAAAATTAG TTTTGGAGAA
TTCTTGTAAG TTGAAGACCA GCAGAGCACC CCTCCCCACC CGCCCCCTAA AAGTGCTTAC AATTTACAGG GATYCTTTTC
TTTTTCAAAG ACCCAAAGAY ACGTGGTCAG AAAAMAAAAG CTTGAAGTCT CAATGCCTAA TGTCGTGCAC ATTKNACAGG
GAAGC

SEQ ID NO:2417: (Length of Sequence = 384 Nucleotides)

GGTTTTCGCA GATGATGGAA CATCCCATAA GCCCAGGTGT GCAGCTAACC TTAGAAGCT GGAAAAGGCA AGGAAACATA
TTCTGTAGAG CCTCCAGAAG GAACACACGT CTGCACACAC TTTGTTTTTA GCTCAGTGAA ACTGATTTTG GACTACTGAC
CTTCAGAACT GTAAGATAAA TTCTGTGTGT TTTACGTTTG TGGTGTATA GAAGTTACAG AAATGAATAT ACTTACCGTA
GTTTAGAGAG AGATGGGAGG ATACTTTTTT TTCTCCCTTC TTTTGAAGG GAGGTAGGTC TCCTTAACTC CAGAGGAAAG
ACTTGTCTTT CTCATATAG GGGCCCTTTG ATTCTTAATT CATGGGAGTT GTTTAGGAGA TTGA

SEQ ID NO:2418: (Length of Sequence = 1645 Nucleotides)

GTGATGGCTG CCTTGAGGGG GACCATCATG TCGGAGACCG CATTGGTGCA GGTCTCACC CACAGCCCAT GCCCAGCCTC
CTGCAGACTC AGGTCATCCA GCTGGTCGAT GGCTCTTTC ATACCTGGTG CCTTCTCTC TCGGCTTGG CAGGCTTCTC
TGGGGGCTTC TCAGATGACT CTTTGGCTT CTTCTCTGTC TTGGCTAACT CCTTGGCCAG CTCGAAAGT GCCTCCTTGG
CTCCCTCTTC TACCACCTCC TCCCGTTTG CCAACTTGCT CACGGCCGTC TTGGTAGTGG CTTTGAGGCT CTCCTTGCTA
TCAGCCGCT GTTTGATTTT GCTGGGCTTG AGGTGGTAG GCACAGCCCC AGAAGCCAGG NCCTTCTGCG TGGCCACAGG
GTAACGAGG AAGTCCAGAT GCGAAGCTT TTCTAGGCCC TCCAAGATCT TGTTTTGGG AGCATTTCTT GGAAAAAGCA
CACGCACAAT CTCTCAGTG GGATTGGCTG GTAGCCAGAC CACCAGAGCA GTGATAGAGG TAAGGTAGGG CACGGAGATC
TCAGCCTCCT TCCCATGGG CAGCACGATG CTTGNTTGG CTTTACTATT GCCTGCCAC TTTTGATGA GGAAGTGCAT
CTCCTTGCTG TCCTTGACAG GGTGAGGAC ATACATGTCC AGCCGGCCCA CACCATTTT GTGGAAGAGG GTCAGTGGCT
CAATGGTATT GCTGACCACA CGATATAGAG GCTCAGCCTG GATGCCAGG CGGTTTAAGT GCTGCAGAGT GAGGCAGGCC
TCCTCAATGC TACGCTTGGC TTTCCGGGAG GCATCAGGAA GCGCAGCTT CTCAGGCAGG TTGAAAAAGA CAACTCCAAG
CTCAGGANAG ATAAGGTTCT TCACCCAGTC GCTGTAACG CTAGAGCCCT GGNACTGCTC CTCCTCTAGC TCTGCCACTT
TGCGCTGCAG TAGTCCATTG ATGCCCTGCA GGTGTCTGC CCAATGTGT GTNAGTAGCA CCGAGTCAAT GCGGTCCAAG
TNCCTACCA GCTTCCAAA ACAGGACTTG CGATCAGAGC CACCATCCAC CAGGATGTTG AAACCATGA CAGCAAAGAG
GGCAGAGTCC CCACGACCAC CTGGGAAGAT GTAGCAACAA GCGTTGGAGA GCTTGAGGAA GCCCCCTGAG GTGGGGGGCT
CTAGTAGGTC AAATGGGGAT GGCACGTCCA CAGTCTCAGA GACATACTCG GAGAACTCAG CCACGCCGTC CATGGTGGGC
AGAGTGGGCT CAGGGTTTAG CCGGAGGTGC AGGGTCTCTT GGGAACTGGA TAATCCAGG TGGCTCCAAT CACCTTCCCC
TAAGCAGGAC ACGGTAAGGA AGGCCTGTAT CCCAGGTCT CTATTGCTGA GCAATTGGGA AATCTCGGGG TTGTGAAGGA
CCTGGGCAAA GTTTTCATAT GAGTAGGTGC CACTCTGTAG GATGAGGTCT CCCCAGGCT CTAAACTTTG CCCACTCAAG
ATTAGTAGTT TATAAGCTGA TGAGCTGCTA AGAAGATGAT GAACCTCAGA GCTGATGCTG TCTGCACTGG GATTTACCAG
GATGATGGTC TCTAGGATCT CACTCTGGTG GCAAAGGGTC CTCTG

SEQ ID NO:2419: (Length of Sequence = 837 Nucleotides)

GGAAGGATGA GAAACAGATT TNGCTCACT TCATGGGCTG GCCTGGAATT GACGATGGTG CAAACCCAAA TNATCCTGAT
GTAATTNATG AAGATTATGG AACTGCAGCG AATGACATCG GGGACACCAC GAACAGAAGT AATGAAATCC CTTCCACAGA
CGTCACTGAT AAAACCGGTC GGGAACTCT CTGGTCTAT GCTGTGGTGG TGATTGCNTC TGTGGTGGGA TTTTCCCTTT
TGGTAATGCT GTTTCINCTT AAGTTGSCAA GACACTCCAA GTTTGGCATG AAAGGTTTTG TTTTGTMTCA TAAGATCCCA
CTGGATGGGT AGCTGAAATA AAGGAAAAGA CAGAGAAAGG GGCTGTGGTG CTTGTGGTGT GATGCTGCCA TGTAAGCTGG
ACTCTGGGA CTGCTGTGG CTTATCCCGG GAAGTGCTGC TTATCTGGGG TTINCTGGTA GATGTGGGG GTGTTTGGAG

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GCTGTACTAT ATGAAGCCTG CATATACTGT GAGCTGTGAT TGGGGAACAC CAATGCAGAG GTAACCTCTCA GGCAGCTAAG
CAGCACCTCA AGAAAACATG TTAAATTAAT GCTTCTNITC TTACAGTAGT TCAAATACAA AACTGAAATG AAATCCCAT
GGATTGTACT TCTNINCTGA AAAGTGTGCT TTTTGACCTT ACTGGACATT TATTGACTTA ATTGCTTCTG TTTATTAATAA
TTGACCTGCA AAGTTAAAAA AAAATTAAAG TTGAGAACAG GTATAAGTGC AACTGAATA GTCTAATCTA CATGTAACAC
ATATTNNGT ATGATTTTCT ATACTCTAAT CAGCACT

SEQ ID NO:2420: (Length of Sequence = 1843 Nucleotides)

GAAGCTCCGG CCCAGGTGGC CGCTGGCTGC TGAGCTCAG CCAAGGTGCG GCTGTGGTGG TGGTGGTGGC GGCTGCAGGC
TTTGCTGCTG CTGGATGTTT GCTGGCTGCA GGTTCGTCTG CTGCATCTGT AAGTTTGTG GCTGCACCTG CTGGGTCTGC
ACCAGGTGAG GCTGGGTGGC CAGCCGGGTG CTGGGCAGGC CCTGGTAGCT CATCATCTGG GACAGGGCGC TGGCAGCAAG
GCTACTGTGC AGCGGGCCTA CCATGCCATG CTGCAGGGAG GGGGCTGTG TGCTCAGGGG GCTTGGTGCC ACACTCCCC
GCAGAGGGTT GTATTGGTTC GGCACCATGC CGCTCTGCAG CCGGGACAGC CACTCGCATT GACCATTCAA ACTGGTGGAC
CCGNCCACAG TGAAATTCAG GGCCCTCCG CTGCTNGAGC CCAGGACGGT GCTGGTGCCA GAGGCCACAG GCAGGTGGGA
GAGACGAGGT GGGCCAGTNT TAAAGGCCAG CCGGCCGCCC CCACCCANOG CCGCCATYTC GGGCTTGGCC GCCACGTCA
GGTNCNNAT GCCCAGGTGG GTGTGGGCA TYCCAGGCAG GTGGTTGAGG GGCACGGACG GAGACTGCTG GAACGGGGAG
GGCAGNAGTG GCGGCGAGGC CACGTCTGAC AGGTAGCCAT GGGGTGACTC CAGGGAGTCC ACGGGCGAGA GCATGCCGGA
GCTGTCCAGC AGGCAGNCCT TGCGTCCCTG GGACTTCTTC CTCGTGCTT TGAGGTCTT GGCTCTCTG CTTCACAGG
CCAGGCCCTT GCTGCTGGC TTGCGGACCT TCTTGCCCTG CACGCCGGC TTGAGGCTGC CCAGGTAGCC GTTGGCGAG
CAGAGCGNGG GCGACAGGT GGGCGTCCC CCAGCGGGC TCCGTGCAGC TGCGGGCTGC GCACCAAGTT GTACTCGTCC
AGCAGCCTCA CGATGTCTG ATGCATGCNC TCCTNTGCGA TGTGCGCGG CAGGCGTCC ATATGATCCG TGATGTCCC
GTGGCAAAG TGGTCCAGCA GCACCTTGGC GGTCTGTAG CTGCCCTCCC GGGCGGCCAG AAACAGGGGT GTCTCTCTCC
TGTGTCTCTG CATATCTTTG TTAGCCCCGT TCTTCAGGAG CACAACCTGC GCATCCACAT TGTTCACNGC GCGGCCCCAG
TGCAGGGCGG ACTTGCCAG GTNATCTACG GCGTTGACGT CCGGTGTGA GTTGATGAGG TCCTCCAGCA TGCCCTCCAC
GGCCAGGCGG GCAGCCAGCN TCAGTGGCGT CGTGCCATCA TGCATGCGG CATCCAGGTC TGTGGCTCGG TTCCGGATCA
GGATCTTGA AGACACCTTG TGCGTCCGCA GACACAGCCG CATGCAGCGG GGTGCGGCC ATGTTGTCTT GGATGTTGGC
ATCTGCGCTG GCTCCAGCA GCGCTTGGC GGCATCAGAG CGTGAGTAGC GGGCGGCCAG GTGCAAGCG GTCTCGCCCG
TNCGTCTGT CTGGTTGTG AAGCTGGCG CCTGGTAGAT GAAGTCGGAG ATGACGGCG GCGGTCTCT CTCCTCTCG
CTGTGCCCC TCTCCAGGC GCGCCGCTG CAGGAGCGCA TCATGAGCGG GTGAAGCCA TCAGGCCGCG GGACATTGAC
GTCCATGCG TCGCGTCAA CCTCACCTG GGGCGGTGTG GGGCCATGG CANACATGC CAGGTACAG GCATCCAGGT
GCTGTGAGT CCACTGCCG TGGTCTGTCT GGTCTGTCAG GTCAGGCAGA ACCACGGGCT CCTOGAACC GAACTTCTTG
GTC

SEQ ID NO:2421: (Length of Sequence = 1452 Nucleotides)

CCAGCAACTC AAATTCACCA CTOGGACTC CTGCGACCG ATCAAAGACG AATTTCAGCT ACTGCAAGNT CAGTACCACA
GCCTCAAGCT CGANTGTGAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CGTCACTATG TGATGTACTA CGAGATGTCC
TACGGCTTGA ACATCGAGAT GCACAAACAG GCTGAGATCG TCAAAAGGCT GAACGGGATT TGTGCCAGG TCCTGCCCTA
CCTNTCCCAA GAGCACCAGC AGCAGGTCTT GGGAGCCATT GAGAGGGCCA AGCAGGTCAC CGCTCCCGAG CTGAACCTA
TCATCCGACA GCAGCTCAA GCCCACCAGC TGTCCAGCT GCAGGCCCTG GCGCTGCCCT TGACCCACT ACCCGTGGGG
CTGCAGCCG CTTGCTGCC GCGGTGAGC GCAGGCACCG GNTCTCTCTC GCTGTCCGCG CTTGGGTTC CAGGCCACC
TCTCCAAGGA AGACAAGAAC GGGCACGATG GTGACACCCA CCAGGAGGAT GATGGCGAGA AGTCGGATTA GCAGGGGGCC
GGGACGGGGA GGTGGGAGG GGGGACAGAG GGGAGACAGA GGCACGGAGA GAAAGGAATG TTTAGCACA GACACAGCG
ANTCTGGGAT TGGCTAAACT CCCATAGTAT TTATNGTGGC GCGCGCGGG GCGCCAGCC CAGCTTGCAG GCCACCTCTA

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GCTTCTTCC TACCCCAATC CCGGCTTCCC TCCTCTCTCC CTGCAGCCTG GTTAGGTGGA TACCTGCCCT GACGTGTGAG
GCAAGNTAAG GCCTGGAGGG TCAGATGGGG AGACCAGGTC CCAAGGGAGC AAGACCTGCG GANGCARGCA AGCCCCNGCC
CTTCCCCCGT TTTGAACATG TGTAACCGAC AGTCTGCCTG GGCCACAGCC CTCTCACCCT GGTACTGCAT GGACGNAATG
CTAGCTGCCC CTTTCCCGTN CTGGGCACCC CGAGINTCCC CGACCCCCGG GTCCCAGGTA TGCTCCACC TCCACCTGCC
CCACTCACCA CCTCTGNTAG TNCCAGACAC CTNCACGYCC ACCTGGTCCT CTNCCATCGC CCACAAAAGG GGGGGCACGA
GGGACGAGCT TAGCTGAGCT GGGAGGAGCA GGGTGAGGGT GGGCGACCCA GGATTCCTCC TCCCCTTCCC AAATAAAGAT
GAGGGTACTA AAGTTGTCTT GGTTTTTATT TTATTATTAT TTTTTCITT TTCCAGTATA CTAGCTTGTC TTTTAAGAAA
GGGGATATTA AAAAAAAAAA AAAGACAAAA GTGTTTTTAA AAAAAAGCAA CACCCACACC TGGTGTCTGT ATATAGTCAG
CTTATCTCGT GTTCAATCGT CTGATCTCTA CAGAGAGAAG TGGAAAATGC TGTATCAAGG GTGGGCTTAG CTGTGCCTTT
CCAATAAAGA TG

5 WHAT IS CLAIMED IS:

1. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS 650, 1834, and 2073;

10 or having a sequence complementary thereto.

2. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

15 or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

3. An isolated polynucleotide that includes a sequence designated as one of:

20 SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

25 4. An isolated polynucleotide operably coding for a native human polypeptide or protein, which includes a region coding for the same amino acid sequence as a native human coding region corresponding to a sequence designated as one of:

SEQ ID NO: 316 - 2421.

30 5. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 6 and is one of SEQ ID NOS: 316-2421.

6. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 7 and is one of SEQ ID NOS: 316-2421.

35 7. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a metabolic functional grouping and is one of SEQ ID NOS: 316-2421.

8. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a structural functional grouping and is one of SEQ ID NOS: 316-2421.

5 9. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 11 in a developmental control grouping and is one of SEQ ID NOS: 316-2421.

10. An isolated polynucleotide coding for a human protein or polypeptide, which includes a coding region corresponding to the EST identified as:

10 SEQ ID NO: 316 - 2421;

or a polynucleotide complementary thereto.

11. The polynucleotide of Claim 10, wherein the SEQ ID NO is 316-1000.

15 12. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1001-1500.

13. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1501-2000.

14. The polynucleotide of Claim 10, wherein the SEQ ID NO is 2001-2421.

20 15. The polynucleotide of Claim 10, wherein said polynucleotide further includes the entire sequence designated as any one of SEQ ID NOS: 316-2421.

25 16. An isolated polynucleotide comprising at least 150 bp of a sequence of Claim 10 and wherein said SEQ ID NO excludes NOS 485, 650, 1834, 2073, 2092, and 2353.

30 17. An isolated polynucleotide sequence, which hybridizes to a sequence designated as any one of SEQ ID NOS 316-2421, except SEQ ID NOS 485, 650, 1834, 2073, 2092, and 2353, or to a sequence complementary thereto, under hybridization conditions sufficiently stringent to require at least 97% base pairing.

18. A polynucleotide according to any one of Claims 4-17, in substantially purified form.

19. A construct in isolated form comprising a vector and a polynucleotide according to any one of Claims 1-17.

35 20. The construct according to Claim 19, further comprising a promoter operably linked to said polynucleotide.

21. A panel of at least 100 isolated polynucleotides having the sequences of Claim 3 or Claim 16.

22. An antisense oligonucleotide capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10.

23. A triple helix probe capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10 having at least a 10-base homopurine or homopyrimidine sequence, said probe comprising single-stranded DNA having at least a 10-base homopurine or homopyrimidine sequence and being adapted to bind to the major groove of double stranded DNA which includes said polynucleotide-encoding sequence.

25. The polynucleotide of Claim 1, wherein said SEQ ID NO is 913.

26. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1039.

27. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1395.

28. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1567.

29. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1667.

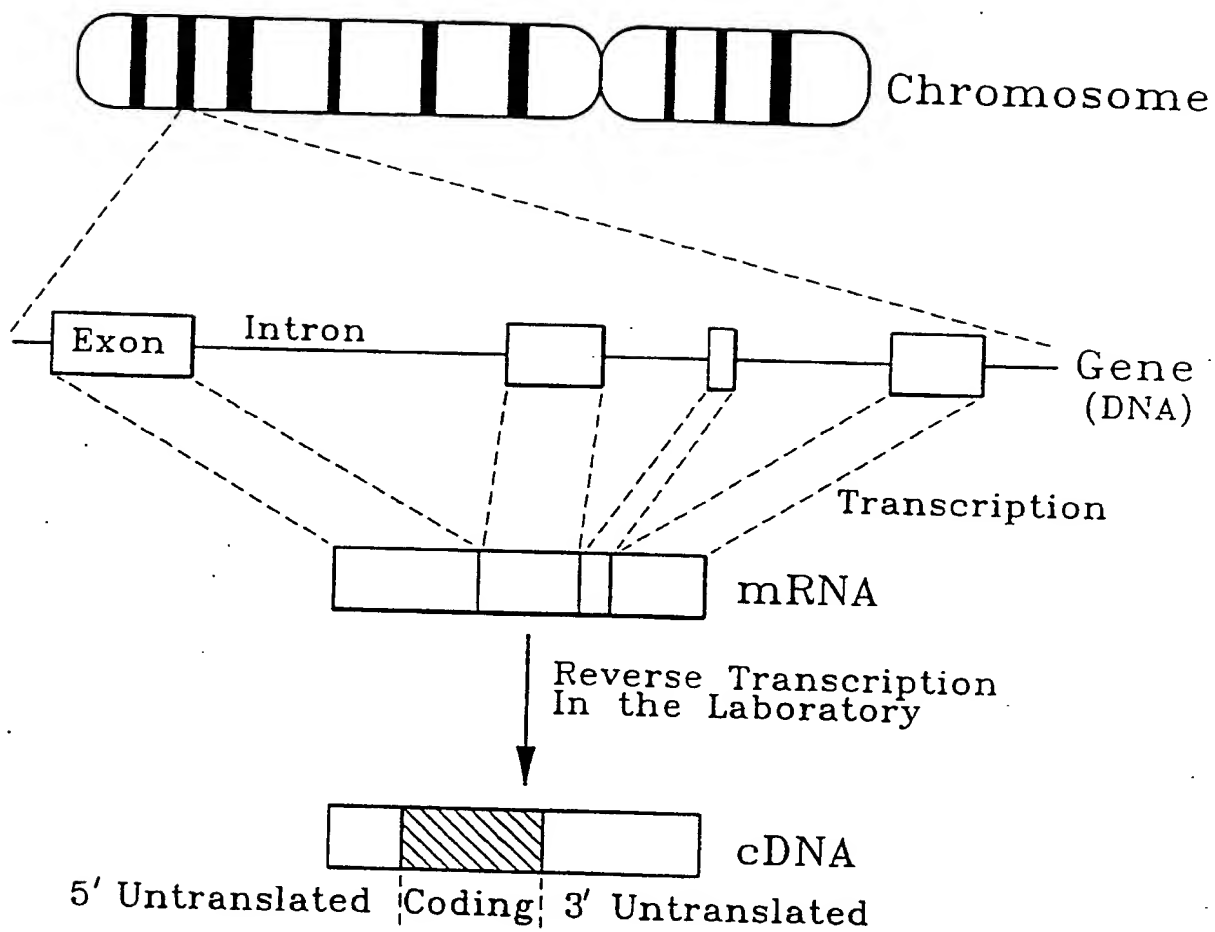
30. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1704.

31. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2089.

32. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2297.

33. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2302.

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**FIG. 1****SUBSTITUTE SHEET**





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁵ : C12N 15/11, C12Q 1/68	A3	(11) International Publication Number: WO 93/16178 (43) International Publication Date: 19 August 1993 (19.08.93)
(21) International Application Number: PCT/US93/01294 (22) International Filing Date: 12 February 1993 (12.02.93) (30) Priority data: 07/837,195 12 February 1992 (12.02.92) US (71) Applicant: THE UNITED STATES OF AMERICA, as represented by THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES [US/US]; Washington, DC (US). (72) Inventors: VENTER, Craig, J. ; 1718 Nordic Hill Circle, Silver Spring, MD 20906 (US). ADAMS, Mark, D. ; 12812 Sage Terrace, Germantown, MD 20874 (US). MORENO, Ruben, F. ; 14415 Coral Gables Way, North Potomac, MD 20878 (US).	(74) Agents: ALTMAN, Daniel, E. et al.; Knobbe, Martens, Olson and Bear, 620 Newport Center Drive, 16th Floor, Newport Beach, CA 92660 (US). (81) Designated States: AU, CA, JP, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 25 November 1993 (25.11.93)	
(54) Title: SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION PRODUCT (57) Abstract Partial and complete human cDNA and genomic sequences corresponding to particular expressed sequence tags (ESTs). The ESTs are cDNA sequences that are generally between 150 and 500 base pairs in length, are derived from human brain cDNA libraries, correspond to genes transcribed in human brain, and have base sequences identified herein as SEQ ID NOS: 1-2421.		

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FI	Finland				

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 93/01294

I. CLASSIFICATION OF SUBJECT MATTER (If several classification symbols apply, indicate all) ⁶		
According to International Patent Classification (IPC) or to both National Classification and IPC Int.C1.5 C 12 N 15/11 C 12 Q 1/68		
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
Int.C1.5	C 07 K C 12 N C 12 Q	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁸		
III. DOCUMENTS CONSIDERED TO BE RELEVANT⁹		
Category ^o	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³
X	SCIENCE vol. 252, 21 June 1991, WASHINGTON, DC, USA pages 1651 - 1656 M.D. ADAMS ET AL. 'Complementary DNA Sequencing: Expressed Sequence Tags and Human genome Projects' see the whole document ---	1-11,15 -23
P,X	NATURE vol. 355, 13 February 1992, LONDON, UNITED KINGDOM pages 632 - 634 M.D. ADAMS 'Sequence Identification of 2375 human brain genes' -----	1-11,15 -23
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>^o Special categories of cited documents : ¹⁰</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"A" document member of the same patent family</p> </div> </div>		
IV. CERTIFICATION		
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report	
07-07-1993	22. 10. 93	
International Searching Authority	Signature of Authorized Officer	
EUROPEAN PATENT OFFICE	VAN PUTTEN A.J.	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 93/01294

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos. because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos. because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos. because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see PCT/ISA/206 mailed on 12.08.93

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-11, 15-23(part.)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.